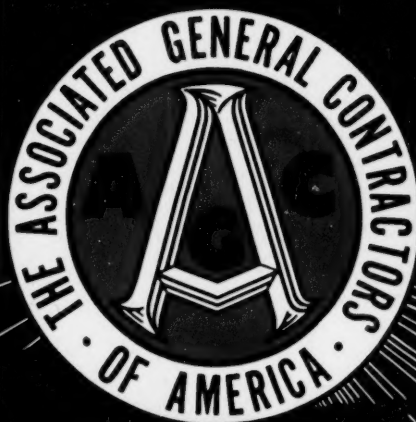


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JULY 1950 • PRICE \$2.00

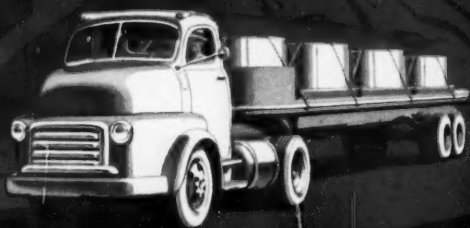


A.G.C. DIRECTORY ISSUE

Trucks get there **FASTER** at Lower Cost with... **EATON**

AXLES

By combining pulling power and speed, Eaton 2-Speed Axles add to truck utility and permit faster trips, more pay-load miles—on the highway or off. Eaton Axles reduce stress and wear on engines and all power transmitting units. This means longer life and minimum maintenance cost...and Eaton's planetary design adds thousands of miles to axle life. Gear tooth loads are better distributed; gear speeds are slow; stress and wear are held to a minimum. Eaton Axles are available for most trucks of 1½ tons and larger. Ask your truck dealer for a road demonstration.



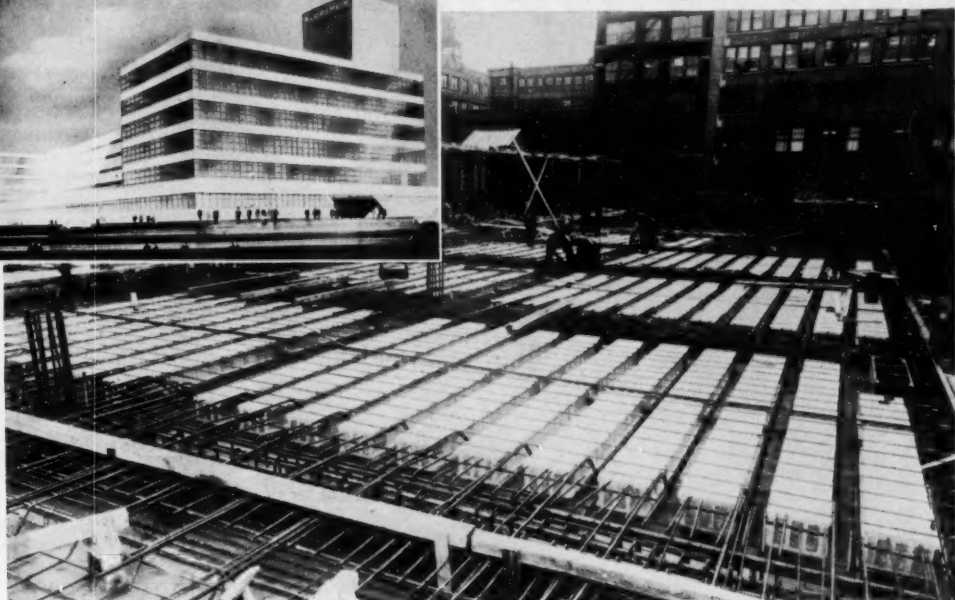
Axle Division
EATON MANUFACTURING COMPANY
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PRODUCTS: SODIUM COOLED, POPPET, AND FREE VALVES • TAPPETS • HYDRAULIC VALVE LIFTERS • VALVE SEAT INSERTS • JET ENGINE PARTS • ROTOR PUMPS • MOTOR TRUCK AXLES • PERMANENT MOLD GRAY IRON CASTINGS • HEATER DEFROSTER UNITS • SNAP RINGS • SPRING TIES • SPRING WASHERS • COLD DRAWN STEEL • STAMPINGS • LEAF AND COIL SPRINGS • DYNAMATIC DRIVES, BRAKES, DYNAMOMETERS



Florsheim Shoe Co. Factory and office building, Chicago, Ill. Campbell-Lowrie-Lautermilch Corp.—General contractor. Shaw, Metz and Dolio—Architect and Engineer. Hi-Bond reinforcing bars from Joseph T. Ryerson & Son, Inc.



Ryerson Reinforcing Service Keeps Jobs Moving FAST

You start jobs on time and stay on schedule when you use Ryerson reinforcing service. That's because you can depend on Ryerson deliveries. The right reinforcing bars are always at hand when you need them. There's no delay, no piling up of materials. Delivery keeps pace with construction progress.

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sheets—whatever your construction steel requirements—one order covers them all at your nearby Ryerson plant. Call us for prompt, personal service on all construction steels—pounds or tons.



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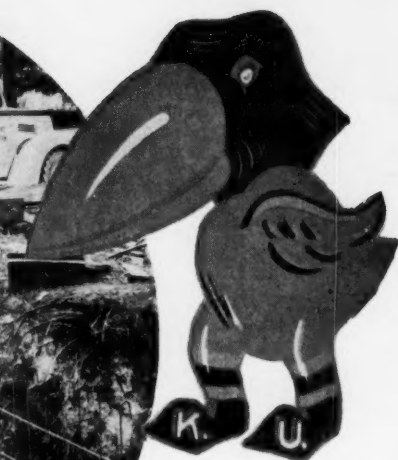
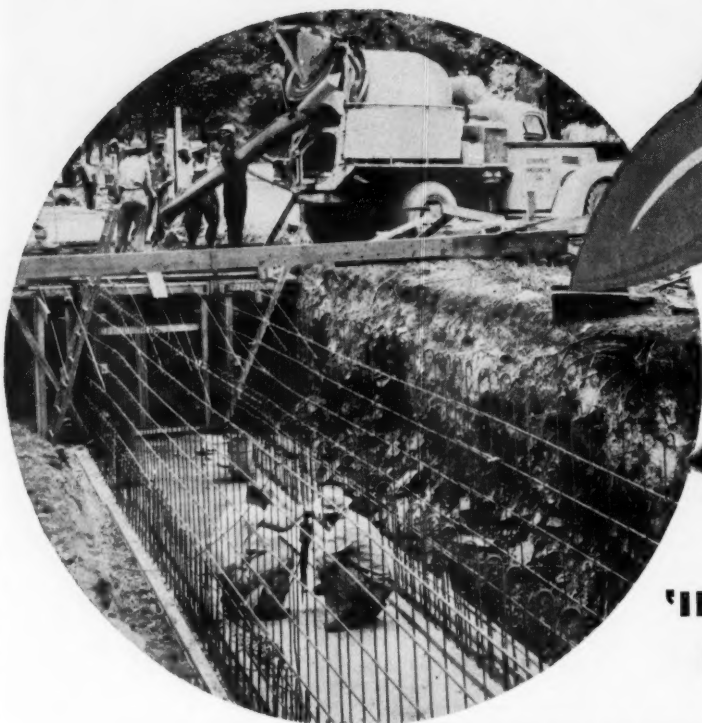
With Hi-Bond reinforcing bars, designers can take full advantage of the higher compressive strengths of modern concretes and the higher tensile strength of new steels. Write for new bulletin describing Ryerson service on this unique reinforcing bar. Ryerson Steel, Box 8000-A, Chicago 80, Illinois.

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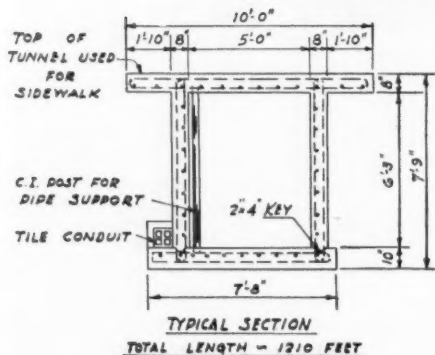


RYERSON STEEL

Sidewalk-Top Heat Tunnel...



'INCOR' HALVES FORM COSTS



HEATING TUNNEL, UNIVERSITY OF KANSAS, Lawrence
 Architect: **CHARLES L. MARSHALL**, State Architect Topeka
 Contractor: **CONSTANT CONSTRUCTION CO.**, Lawrence
 Ready-Mix 'Incor' Concrete: **THE READY-MIX CO.**, Lawrence

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Result: On-time completion, bone-dry tunnel, good-looking sidewalk job—everybody pleased!

Typical time-and-money-saving performance of America's FIRST high-early-strength Portland Cement.

* Reg. U.S. Pat. Off.



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The CONSTRUCTOR

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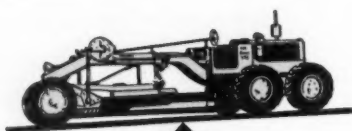
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This Klock Construction Company's "Cat" No. 212 Grader is grading for sidewalk at the municipal football stadium in Amarillo, Texas. Does subgrade, shoulder work and drainage. D. W. Klock says, "This rig is the backbone of our street, alley and parking area work in Amarillo. It's well balanced, and just the right size. Going to buy another just like it this year!"

Price of the standard model No. 212 Motor Grader is \$6435, f.o.b. Peoria, subject to change without notice.

Buy balanced
"Cat" Graders
for more work
at less cost



**SPEED
WEIGHT
POWER**

CATERPILLAR

REG. U.S. PAT. OFF.
DIESEL ENGINES • TRACTORS • MOTOR GRADERS
EARTHMOVING EQUIPMENT

The "Cat" No. 212 Grader shown here will never be a wallflower. Owner D. W. Klock, Amarillo, Texas, says, "This rig's so well balanced, maneuverable and fast, the boys all want to run it!"

Balance is the secret of "Cat" Graders' popularity with owner and operator alike. "Caterpillar" builds each Motor Grader from the ground up as an individual unit. The correct weight, plus the right horsepower, plus rated work speed — these things add up to *balanced* machines that solve your job problems at lower cost.

Informed buyers are finding that *assembled* graders are often poorly balanced. It stands to reason that when one engine or one frame is used for more than one model, the best use cannot be made of weight and power. But balanced "Cat" rigs are neither muscle-bound nor jumpy on the job, and cut costs through superior performance and longer service life.

There's a size "Cat" Motor Grader for every type of work — with the stamina, punch and balance to do a particular job best. And don't forget what world-famous "Caterpillar" dealer service means in cutting down time to the bone. Their representatives have plenty of job-savvy, and their parts replacement service is without an equal. Ask your "Caterpillar" dealer to show you his Motor Graders' bonus features. And remember that quality under the hide doesn't show on the outside — it shows up in performance.

CATERPILLAR TRACTOR CO. • PEORIA, ILLINOIS

THE CONSTRUCTOR, JULY 1950

A.G.C. Directory, featured in each July issue of *THE CONSTRUCTOR*, lists new record total of 5,572 memberships held by the leading general contractors who perform an estimated 80 per cent of all construction in this country by contract. Chapters and branches now total 112 throughout the United States and Alaska. (Story, page 23) (Directory of Membership, pages 173-284)

Survey of conditions in the construction industry, just completed by A.G.C. among its chapters and directors, shows current high level of volume, bright outlook for remainder of 1950, competition still almost 100 per cent strong. Some labor and material shortages noted, principally in building field, and costs going up. Highway construction, while in general good, is lagging in some states due to lack of funds. (page 24)

Booming \$26 billion volume of new construction forecast for 1950 by Departments of Commerce and Labor, paced by another record in residential construction. Industrial building coming back after three-year decline. Forecast reflects upward revisions of estimates in addition to current high activity. New items not formerly carried include residential additions and alterations, tourist courts and cabins, dormitories, atomic energy projects, more allowances for land development costs, architects' and engineers' fees. (page 28)

Private surveys indicate business generally is on upgrade and the outlook is bright, in contrast with views of the 1st part of the year. Prices rising in many lines, but government and private prognosticators express opinion no dangerous inflation in sight. Return of business confidence is highlight in the economy, as is high employment level.

Spot labor shortages appearing in building trades as consequence of great activity may indicate need for renewed efforts in apprentice training. Programs started immediately after the war now are paying off.

Accident prevention studies indicate average cost of an accident at \$5,250. Breakdown of costs, "hidden costs" described. (page 92)

Revetment construction along lower Mississippi River seen market opportunity for heavy contractors, with more than twice as much articulated concrete revetment work scheduled for contract this year than in 1949. Mississippi River Commission explains work, equipment required. (page 56)

Labor relations in the construction industry becomes more complicated as laws come between the contractor and his workmen, between contractor and union, and between union and its members. (page 41)

Policy on construction industry announced by National Labor Relations Board just prior to decision rendered in Hewes-Atkinson case, which, if followed to letter, would disrupt practically all bargaining in the industry. (page 45)

National Joint Board for the Settlement of Jurisdictional Disputes has been operating successfully since its reestablishment last October, with more than 200 cases handled, 137 of which have been settled by job decisions. (page 42)

British report on the American building industry received wide publicity in Britain. Members of the Productivity Team conducting local meetings throughout the country to carry home their points, which were highly praised in the press. Second of two articles, in this issue, reveals the inner workings of our industry as an insider can seldom detect. (page 101)

Adoption of a force account limitation by the Tennessee Valley Authority was urged by H. E. Foreman, managing director of the A.G.C., in his testimony before a Senate subcommittee in June. He urged that public funds be given the cost-saving benefits of competition and that more spending in the TVA area be directed toward stimulation of private industry. (page 35)

Governors assume leadership for first time in highway problems, expected to get something done to improve programs in 1951 when 44 state legislatures meet. (page 49)

Congress passed and the President vetoed the basing point bill. A "watchdog" subcommittee was established to follow Federal Trade Commission policy regarding delivered pricing systems. Further consideration of the bill this year is impossible. (page 32)

Amendment to the War Contractors Relief Act was vetoed by President Truman. Designed to remove harsh inequities resulting from government ruling that the act was a continuation of the First War Powers Act, the amendment has been long sought by the contracting industry. However, Mr. Truman's veto message includes suggestions for an amendment which he will find acceptable. (pages 31-32)

Federal aid highway bill expected to be reported to Senate immediately, with possibility of recommendation for more than the \$645.5 million authorized in House bill. (page 35)

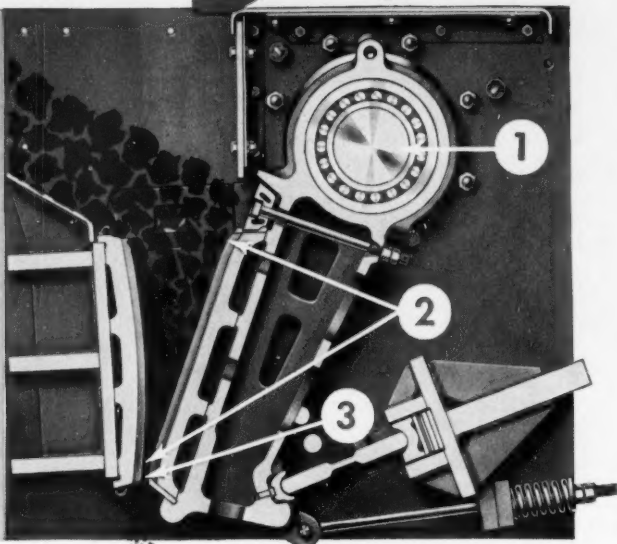
Appropriations delay again playing havoc with government agencies. Those supervising construction programs can't schedule projects properly in advance. One reason for delay is the new system of lumping all funds in an overall super bill. None can get funds until debate is concluded on everything.

Army reassures A.G.C. sponsors of affiliated units of its sincere interest in the association's program, and of its place in newly reconstituted Organized Reserve Corps. (page 113)

Advance planning loans for state and local public works had been approved for \$263 million of projects at time of transfer from General Services Administration to Housing and Home Finance Agency. Applications still coming in at rate of 50 to 100 per week. (page 126)

1 speed 2 long jaws 3 long stroke

It Takes ALL 3



to put the maximum amount of rock through a jaw crusher

A-W design takes full advantage of these basic requirements.

That's why these heavy-duty crushers turn out so much rock.

... and that's one big reason for the uninterrupted flow of material through the crushers and over the screens and conveyors of Austin-Western portable plants. No bottlenecks ... no delays ... just constant, high speed production.

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"61"—For the smaller jobs where accurate grading of finished product is not required. Simple ... economical ... easily moved.



"201"—High output, portable gravel plant capable of producing especially large amounts of $\frac{3}{4}$ " and smaller product.



"101"—For contractors or counties needing extra large amounts of material. Equally useful in gravel and quarry service.



2-UNIT AND 3-UNIT PLANTS—Higher production than that of a single unit plant, thanks to larger crushers and multiple screens. Deliver several sizes of finished product.

BUILDERS OF ROAD MACHINERY
Austin A Western
SINCE 1889

A Series of Graphs Outlining the Construction Trend

Compiled by The Associated General Contractors of America

TREND OF CONSTRUCTION COSTS

The average of construction costs in the principal construction centers of the United States for June stands at Index Number 349, according to the A.G.C. Index. The cost figure for June 1949 was 343. The 1913 average equals 100.

WAGE AND MATERIAL PRICE TRENDS

The average of wages in the principal construction centers of the United States stands at 471 for June. One year ago the average stood at 462. The average of prices paid by contractors for basic construction materials for June stands at Index

Number 268. The average a year ago stood at 263. The 1913 average, again, equals 100.

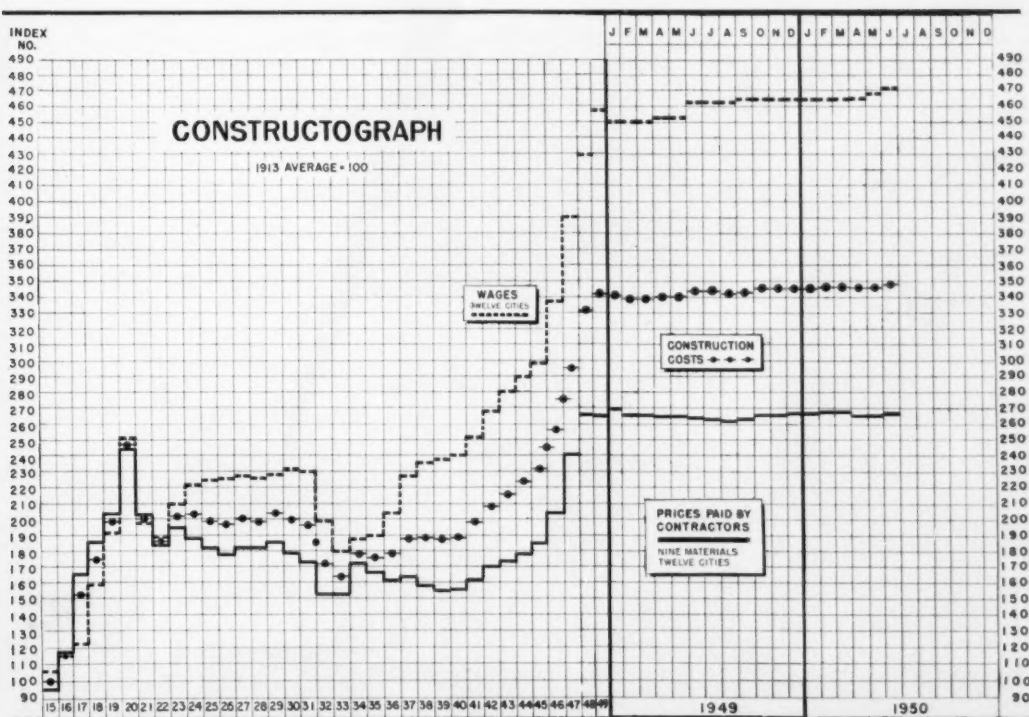
CONTRACT AWARDS IN 37 STATES

The volume of contracts awarded during May (Index Number 295, based on 1936-1938) is the same as April, and an increase of 99 points above May 1949.

REVENUE FREIGHT LOADINGS

Revenue freight loaded during the first 25 weeks of 1950 totaled 17,103,906 cars. For the same period in 1949, loadings amounted to 18,092,900 cars. This represents a decrease of 5 per cent.

● Wage, Material Price and Construction Cost Trends



THINK

what this
machine

can do for You!

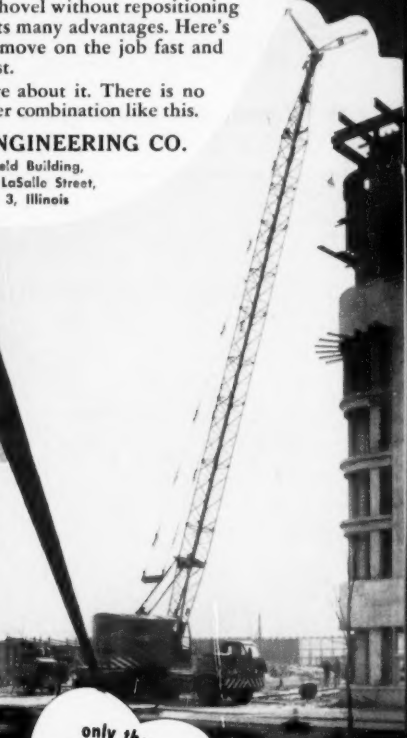
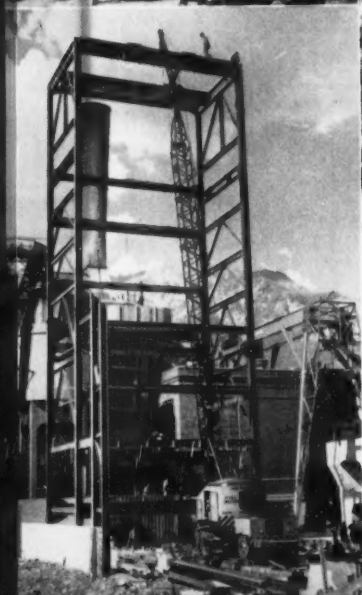
Here's a unit that can get around! It handles booms from 30 to 100 feet and a job. The Northwest High-Speed, Power-Controlled Boom Crane is independent of all other operations. The "Feather-touch" Catch Control, Uniform Pressure Swing Clutches, the Cushion Catch and other Northwest advantages are standard equipment.

Equipped with these is the Carrier, the like of which has never been offered with a Truck Crane. Better frame reinforcement, better load distribution, outriggers that extend the stability of the carrier, easy conversion from Crane to Shovel, or Pullshovel without repositioning the boom, are just a few of its many advantages. Here's a machine that you can move on the job fast and move away from the job fast.

Get more about it. There is no other Crane and Carrier combination like this.

NORTHWEST ENGINEERING CO.

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South LaSalle Street,
Chicago 3, Illinois



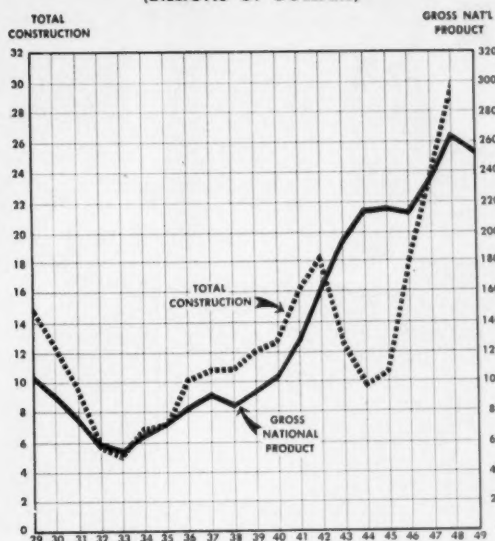
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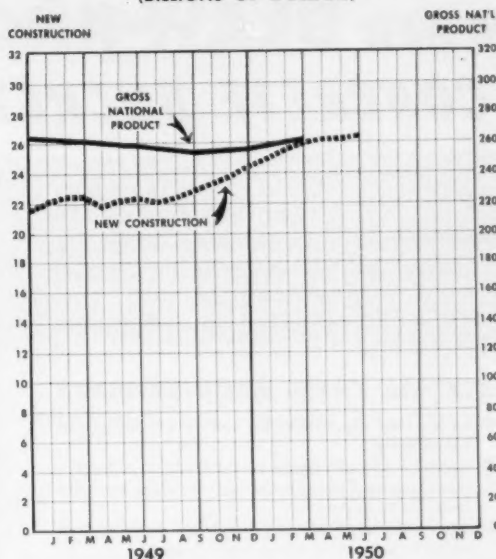


● TOTAL Construction compared with Gross National Product (BILLIONS OF DOLLARS)



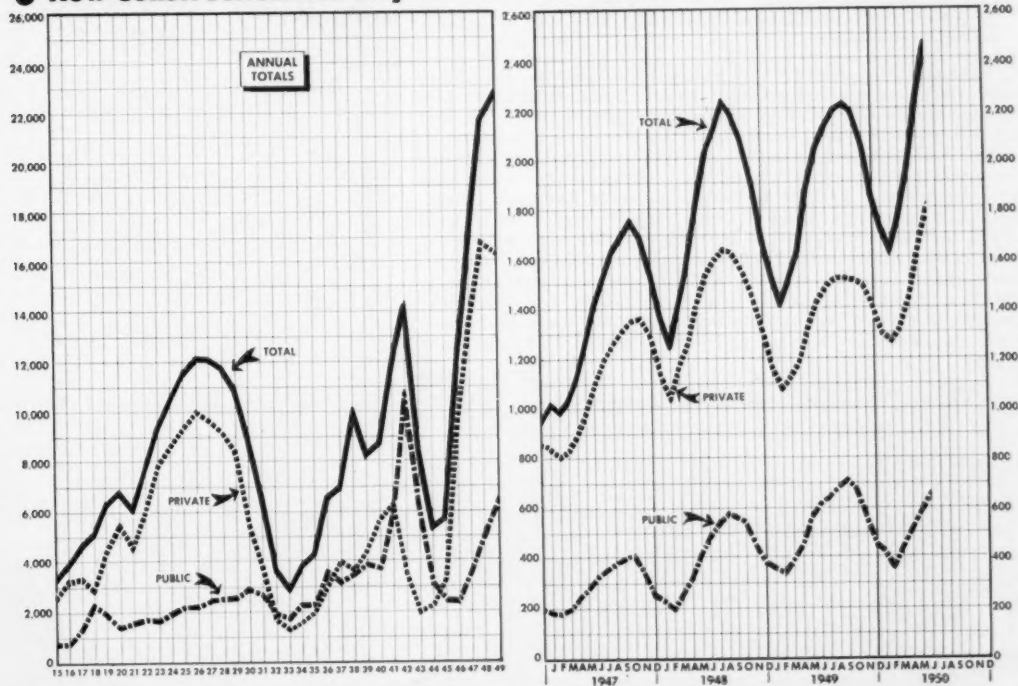
DATA SUPPLIED BY DEPT. OF COMMERCE

● NEW Construction compared with Gross National Product* (BILLIONS OF DOLLARS)



* Seasonally adjusted at an annual rate

● New Construction Activity (MILLIONS OF DOLLARS)



DATA SUPPLIED BY DEPTS. OF COMMERCE AND LABOR

Announcing

The New **BLAW-KNOX** **CONCRETE BUCKET**

for handling of low slump concrete containing large aggregates and air-entraining agents

MEETS ALL THESE REQUIREMENTS

- Loads and discharges all concrete rapidly and completely
- Controllable discharge so that part of a bucket load can be deposited in one location and the remainder in another
- Air-operated discharge gates are positive and quick acting in opening and closing
- Buckets are equipped with hook-on attachments for crane or cableway, conveniently located for rapid attachment and detachment
- Buckets are light in weight yet sturdy enough to withstand the abuse encountered under construction conditions

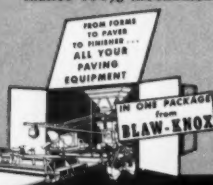
HERE'S the new Blaw-Knox CAC Concrete Bucket, equipped with air-operated clam gates, and designed for high speed, economical operation on big-job specifications calling for coarse aggregate of 6" size, and air-entraining agents which make concrete more sticky than normal. The model CAC Concrete Bucket is specifically designed for low cost handling and placing of this harsh, low slump concrete for mass concrete construction on U.S. Engineer, Bureau of Reclamation, etc., projects. Exclusive Blaw-Knox features include: larger water level capacity; larger discharge openings; faster air-operated gates; rectangular discharge openings (instead of circular) to prevent arching of the harshest, lowest slump concrete over the discharge throat. Model CAC Concrete Buckets are furnished in 2, 3, 4 and 8 cu. yd. sizes. The 8 yd. model is supplied either as a two compartment or single compartment bucket.

Write for Bulletin 2331 for full information, specifications and dimensions.

THERE'S A BLAW-KNOX "COMPLETE PACKAGE" TO MEET EVERY CONSTRUCTION NEED

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shell and Concrete Buckets of every size and type, Road Forms, Curb and Gutter Forms, Aggregate and Cement Batching Plants, Subgraders, Paving Spreaders, Finishing Machines, and a complete Ready-Mix Package with Truck Mixer Loading Plants and the Hi-Boy Trukmixers with the revolutionary Revolving Hopper. Ask for detailed information.



BLAW-KNOX



A COMPLETE LINE OF **BLAW-KNOX CONCRETE BUCKETS**

ROLLER GATE CONTROLLABLE DISCHARGE BUCKETS



The roller gate design greatly increases gate operation efficiency under full load conditions, permitting extremely large openings for discharge. These gasket-tight, leak-proof buckets are easily and rapidly operated by one man and the discharge is completely controllable. Available from 1 to 8 cu. yd. capacity.

DOUBLE CLAM GATE BUCKETS

A low cost unit for handling concrete of normal consistency on general construction work, and especially adaptable to narrow form work. Operator can work the discharge gate lever while straddling the forms. Gate operation is easy and convenient. Furnished in 1/2, 3/4, 1 and 1 1/2 cu. yd. sizes.



BLAW-KNOX DIVISION of Blaw-Knox Company

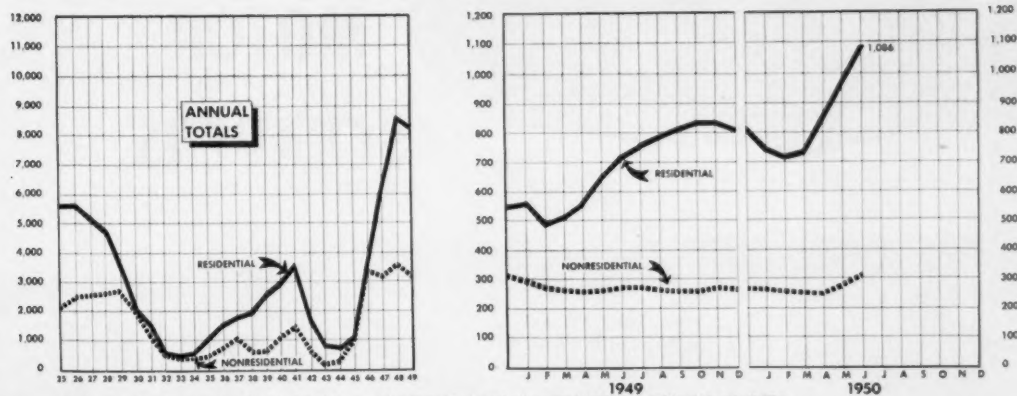
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Birmingham • Chicago • New York

Philadelphia • Washington • San Francisco

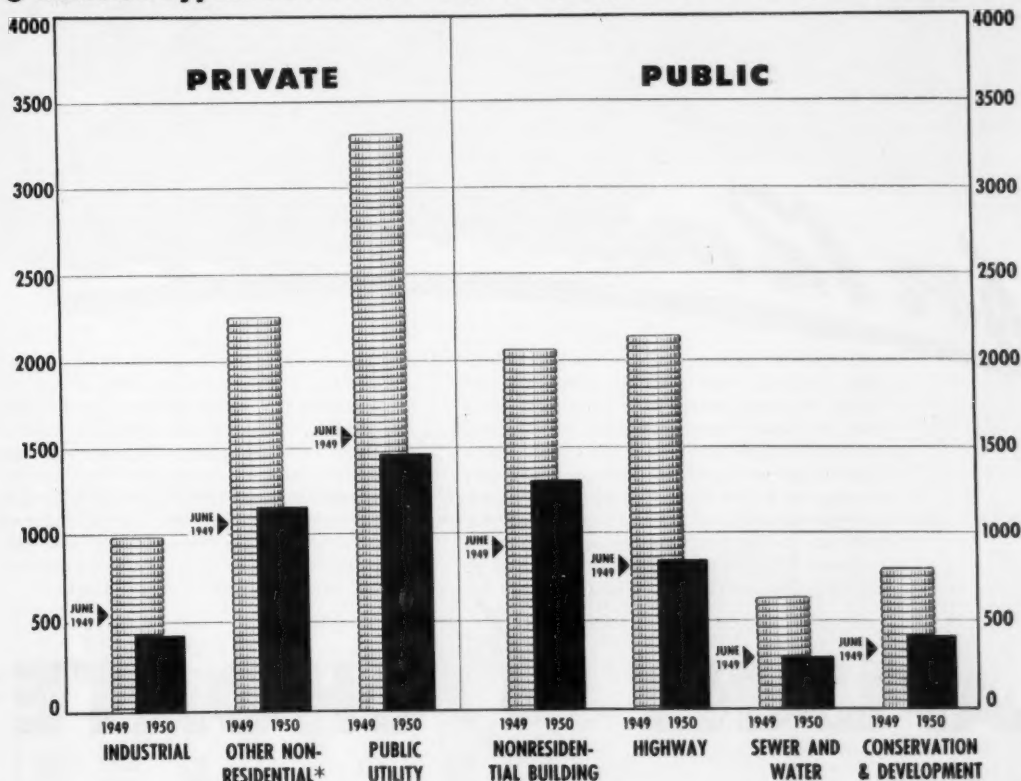
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● Private Residential and Nonresidential Building* (MILLIONS OF DOLLARS)



* Residential excludes farm; Nonresidential includes industrial, commercial, institutional, and social and recreational building, but excludes public utility building.

● Selected Types: (CUMULATIVE, MILLIONS OF DOLLARS) 1949 and 1950 VOLUME THROUGH JUNE



* Includes commercial, institutional, and social and recreational building

HENRY DOELGER

PICKS LPC

MOTOR

SCRAPERS



for 12 million yards.

MOVING 12 million yards of sand is a man-sized job in anyone's language. Henry Doelger of San Francisco tackled it to make room for a 7000 new home housing project at Westlake, south of San Francisco. Six LaPlant-Choate Motor Scrapers are moving 11,700 yards per 8-hour day, working on a 1600-ft. cycle. Each load averages 14.3 pay yards. Material is damp sand, weighing 3000 lbs. to the yard. Average loading time is 1-minute. All ejection and spreading is done in high gear. Each unit hauls 17 loads in a 50-min. hr.

Whether you're moving sand, mud or good scraper dirt, you'll be money ahead if you use profit-making LPC Motor Scrapers. Get the story first hand — talk to the men who own them or run them. There are reasons why more and more smart contractors are using the Motor Scraper.

Available now in 2 sizes. The "300" in the 14-17.5 yard class. The "200" in the 9-12 yard class. LaPlant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa; LaPlant-Choate Sales & Service, 1022 77th Ave., Oakland, Calif.

LAPLANT



CHOATE



Cable-operated Scrapers in 4-, 8- and 14-yd. sizes for all makes of truck-type tractors.



2- and 4-yd. Scrapers for truck-type and rubber-tired industrial tractors.

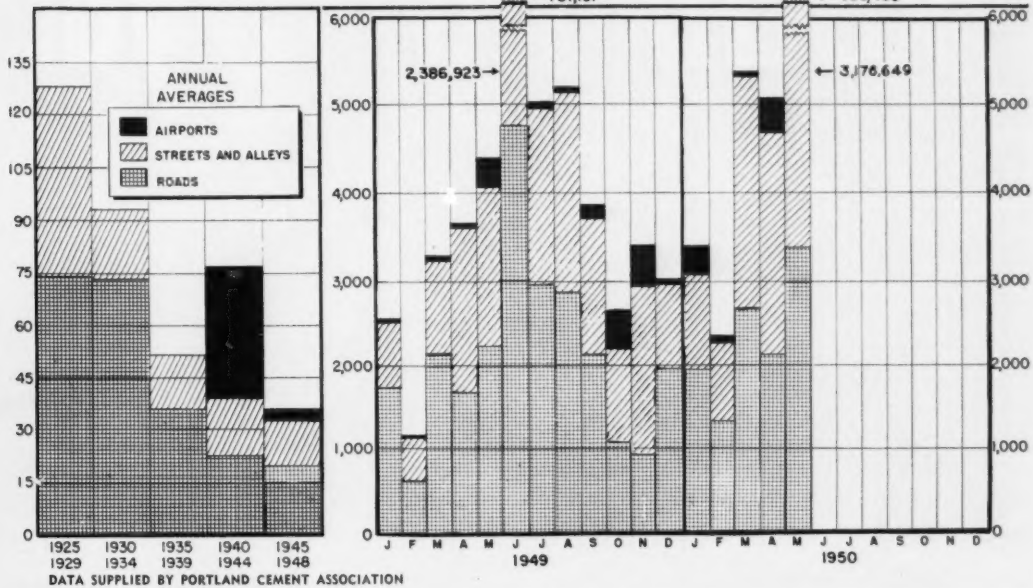


Hydraulic and Cable-operated Dozers.

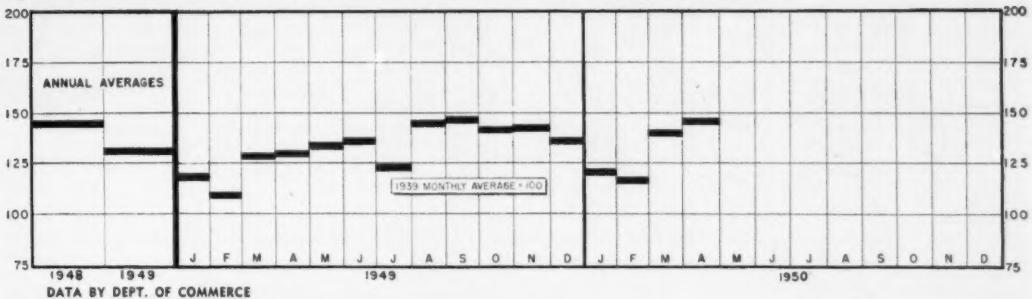
Concrete Surface Pavement Awards

MILLIONS OF SQUARE YARDS

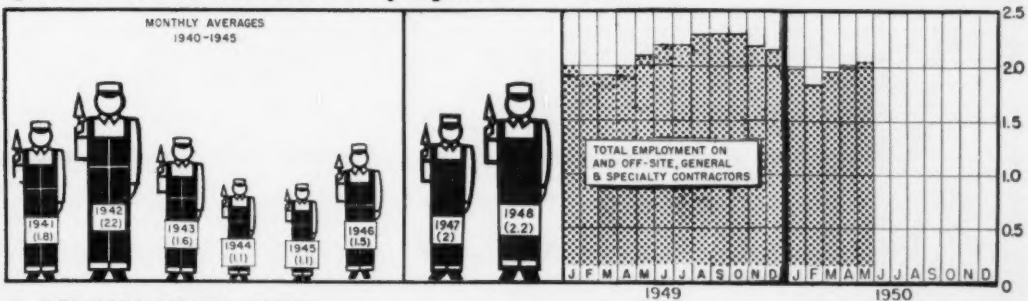
THOUSANDS OF SQUARE YARDS



Materials Index: COMPOSITE PRODUCTION INDEX OF 20 MATERIALS



Contract Construction Employment (MILLIONS)



ROCK-BOTTOM COSTS on TOUGHEST JOBS

KOEHRING 1½ yd.



WITH this rugged Koehring 1½-yard, you can keep costs low . . . output high on the toughest rock jobs. Your earnings are protected against costly down-time because every shovel assembly, from the 605's big payload dipper, rigid shipper shaft and massive rock boom to its wide boom-foot mounting, is extra-heavy-duty. Heavy coil spring shock-absorbers on boom foot withstand torsional twists and strains . . . protect entire machine against shock loads of heaviest shovel work.

Output stays high right up to the end of shift because there's less operator fatigue. The 605's big 37" power clutch does the heavy work . . . cuts normal lever pull 90%. Requires only 7 lbs. pull . . . yet retains load "feel". Fast, smooth swing, coal-running clutches and independent boom hoist also keep production high. Simple compact machinery arrangement simplifies adjustments, assures less down-time . . . more work time. Get all the facts from your Koehring distributor TODAY.

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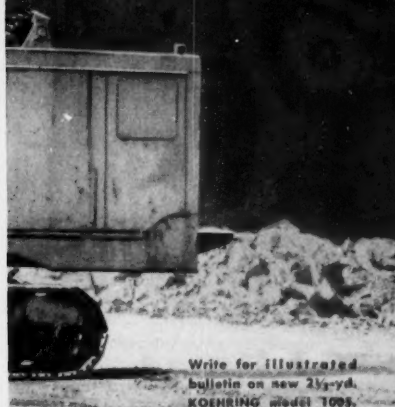
ALL-PURPOSE Roadbuilders BIN...

**Fast-batching
...portable**

For fast aggregate batching . . . flexibility to handle 2, 3 or 4 materials . . . portability for frequent job moves, check this new, Roadbuilders All-Purpose Bin. Available in 50 to 125 cu. yd. capacities. Can be used with 1 or 2 Johnson Hi-Speed size 34, for 34-E paver batch, Roadbuilders Batchers available for handling 2, 3 or 4 types aggregate. Batchers also available with collector cone for charging transit mix trucks . . . sizes 2, 3 and 4 cu. yds. Easily converted to ready-mix plant. Only one or two main shipping sections, depending on bin size. Write for catalog.

C. S. JOHNSON COMPANY
Champaign, Illinois

Koehring Subsidiary



Write for illustrated
bulletin on new 2 1/2-yd.
KOEHRING Model 1009.



**CUT ROCK HAULING COSTS
with KOEHRING DUMPTONS**

Ask your Koehring distributor to show you how this fast-shuttling Dumpton, with its 6-yard rock body, cuts costs, steps up production on your off-highway hauls. Travels 3 speeds forward and reverse . . . climbs 24% grades fully-loaded . . . dumps in 1-second.

CKP18c

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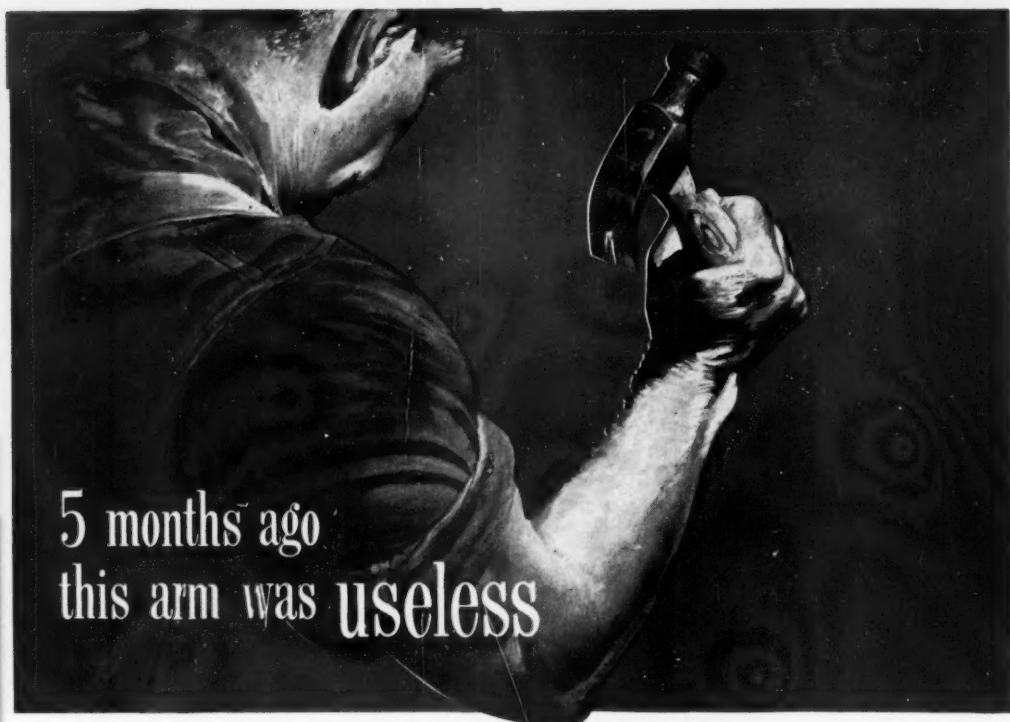
Utility-size TRENCHMOBILE on rubber

You can send this small, rubber-tired Trenchmobile to do one-man trenching for off-street connections, etc. This mobile Model 80 goes anywhere . . . over city streets . . . down highways at speeds to 18.9 m.p.h. No waiting for truck or trailer. Digs as fast as 14.65 ft. per min. . . up to 4 ft. deep . . . 5" and 8" wide. Cuts smooth-walled trenches in toughest digging . . . no slow, costly hand trimming. Same heavy-duty strength as the 4 bigger Parsons Trenchliners*. Send for complete facts today.

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THE PARSONS COMPANY
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...BUT EMPLOYERS MUTUALS PHYSIOTHERAPY SAVED IT FOR THIS CARPENTER

A spill of hot, searing tar left this carpenter's arm 40% disabled—with little possibility of improvement.

But after five months of treatment by Employers Mutuals physiotherapy department the disability was reduced to 5% and the man was able to go back to work at his trade.

☆ ☆ ☆

It is this human, mutually helpful attitude of Employers Mutuals which make them such unusual, such fine insurance companies with which to carry your casualty insurance.

Throughout the construction field, Employers Mutuals have earned an enviable reputation for the quality and

wide scope of their services to contractors. These skilled services include: safety engineering and accident prevention; cooperation in establishing first-aid and medical facilities; safety training among supervisors and employees; regular help in maintaining job-safety programs.

All claims receive careful attention and investigation... claim settlements are promptly, equitably and cheerfully made.

Every contractor who places his workmen's compensation, liability or other casualty insurance with us can benefit largely by taking full advantage of all these unsurpassed services. Records prove that employer-policyholders who

cooperate by using Employers Mutuals services not only improve their operation but frequently effect substantial savings in their insurance costs!

For a simple explanation of the insurance that will protect you, get in touch with the Employers Mutuals man. He will give you full information on Public Liability... Automobile... Plate Glass... Burglary... Workmen's Compensation... Fidelity Bonds... Group Disability (Health, Accident, Hospitalization and Surgical Benefits)... and other casualty insurance... Fire... Tornado... Extended Coverage... Inland Marine... and allied lines of insurance. All policies are nonassessable.



... make
insurance
understandable

EMPLOYERS MUTUALS OF WAUSAU
 EMPLOYERS MUTUAL LIABILITY INSURANCE COMPANY OF WISCONSIN
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 HOME OFFICE: WAUSAU, WISCONSIN
 Offices in Various Cities - Consult Your Insurance Company

For Moderate Income Families in Large Cities

(Formerly referred to as the "Cost of Living Index," compiled by the Bureau of Labor Statistics)

This table indicates the average changes in retail prices of selected goods, rents and services bought by the average family of moderate income from March 15, 1948 to May 15, 1950.

They are presented here for use by employers who may wish to take these cost of living data into consideration when contemplating adjustments of wages based on increased living costs.

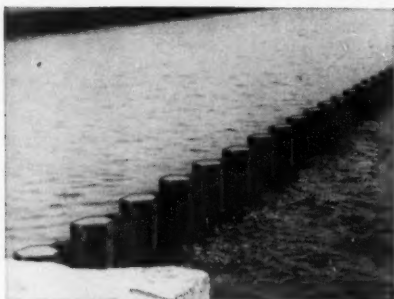
The Bureau of Labor Statistics surveys 10 key cities every month and 24 other large cities quarterly. Prices are obtained on food, fuel, apparel, house furnishings and miscellaneous goods and services. Rental information is obtained quarterly only for all cities. The computations are based on the indexes for the years 1935-39, which are taken as the average of 100 points.

	1948			1949			1950		
	MAR. 15	APR. 15	MAY 15	MAR. 15	APR. 15	MAY 15	MAR. 15	APR. 15	MAY 15
Average.....	166.9	169.3	170.5	169.5	169.7	169.2	167.0	167.3	168.6
Birmingham, Ala.....	172.0	172.7	173.7	171.8	171.6	171.4	168.4	167.7	169.0
Mobile, Ala.....	169.9	.....	.....	171.1	.....	.....	166.2	.....	.....
Los Angeles, Calif.....	167.4	169.3	169.1	171.0	171.2	169.6	165.9	166.9	166.7
San Francisco, Calif.....	171.4	.....	.....	174.6	.....	.....	172.3	.....	.....
Denver, Colo.....	.....	168.5	.....	.....	169.9	.....	.....	165.7	.....
Washington, D. C.....	.....	.....	166.7	.....	.....	165.3	.....	.....	165.2
Jacksonville, Fla.....	172.8	.....	.....	174.3	.....	.....	174.8	.....	.....
Atlanta, Ga.....	.....	.....	170.8	.....	.....	170.5	.....	.....	169.3
Savannah, Ga.....	.....	177.6	.....	.....	174.9	.....	.....	170.9	.....
Chicago, Ill.....	169.0	172.1	174.9	174.5	175.0	174.2	172.9	172.9	175.3
Indianapolis, Ind.....	.....	172.5	.....	.....	171.9	.....	.....	170.9	.....
New Orleans, La.....	.....	.....	176.5	.....	.....	172.5	.....	.....	171.5
Portland, Maine.....	162.7	.....	.....	165.0	.....	.....	163.7	.....	.....
Baltimore, Md.....	170.9	.....	.....	173.9	.....	.....	170.1	.....	.....
Boston, Mass.....	160.8	163.6	164.1	162.5	162.4	162.2	162.0	162.3	163.3
Detroit, Mich.....	168.7	171.8	173.2	170.8	171.1	171.6	168.3	169.5	171.4
Minneapolis, Minn.....	167.7	.....	.....	169.3	.....	.....	167.1	.....	.....
Kansas City, Mo.....	.....	163.3	.....	.....	163.3	.....	.....	161.1	.....
St. Louis, Mo.....	167.8	.....	.....	169.0	.....	.....	.....	.....	.....
Manchester, N. H.....	.....	172.0	.....	.....	170.6	.....	167.4	167.1	.....
Buffalo, N. Y.....	.....	167.2	.....	.....	168.3	.....	.....	166.3	.....
New York, N. Y.....	164.3	167.0	167.5	167.4	168.1	166.8	164.0	164.5	165.4
Cincinnati, Ohio.....	169.3	170.8	172.3	170.7	170.7	169.1	167.9	167.3	169.7
Cleveland, Ohio.....	.....	.....	173.7	.....	.....	171.5	.....	.....	170.1
Portland, Ore.....	.....	175.8	.....	.....	177.6	.....	.....	174.8	.....
Philadelphia, Pa.....	165.5	169.3	170.4	169.0	169.0	169.9	166.0	166.0	167.1
Pittsburgh, Pa.....	170.1	171.9	173.5	172.7	173.0	172.9	169.5	170.1	172.0
Scranton, Pa.....	.....	.....	170.2	.....	.....	168.4	.....	.....	167.3
Memphis, Tenn.....	172.4	.....	.....	173.3	.....	.....	169.4	.....	.....
Houston, Texas.....	170.0	171.4	171.5	170.2	171.0	170.6	172.9	171.9	172.4
Norfolk, Va.....	.....	.....	171.9	.....	.....	170.3	.....	.....	170.9
Richmond, Va.....	163.4	164.2	161.9
Seattle, Wash.....	174.3	172.5	171.8
Milwaukee, Wis.....	171.1	169.3	170.9

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PULL IT
RE-DRIVE IT**

INLAND SHEET PILING

CAN TAKE IT!

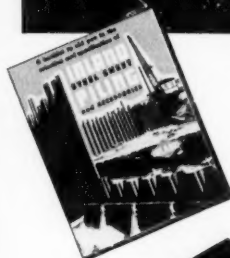


For over 25 years, piling contractors have used and depended upon Inland sheet piling. They have used it with continued good service on single and double wall cofferdams, cellular breakwaters, jetties, docks, bulkheads, and retaining walls.

Inland Piling is rolled from special analysis steel to provide the necessary strength, resistance to corrosion, toughness and uniformity to withstand great stresses. And it has a highly efficient interlock for water retention.

Inland engineers have had broad experience in working with contractors. They are ready to assist you in design, layout and selection of proper material to cut construction costs and speed erection.

Inland steel sheet piling is readily available today. Your orders can be promptly scheduled for early delivery.



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Kansas City, Milwaukee, New York, St. Louis, St. Paul

Sidelights for Contractors

By John C. Hayes, Legal Adviser

Taxes

Interest on Deferred Excess Profits Tax.—A Circuit Court of Appeals has refused to follow a taxpayer's contention that interest on a portion of excess profits tax deferred under Section 710 (a) (5) of the Internal Revenue Code and later assessed on the Commissioner's disallowance of the taxpayer's claim for excess profits tax relief under Section 722, begins to run only from the date of such disallowance and assessment of the unpaid tax, rather than, as in the instance of an ordinary deficiency, from the original due date of the tax.

Tax Exempt Corporations.—A corporation engaging in no educational work, but carrying on a big commercial business for profit, competing with non tax-exempt business firms, is not itself exempt because its profits go to an exempt corporation. So concluded the Tax Court in the recent case of a macaroni manufacturing company owned and operated exclusively for the benefit of a university within the exempt class.

Improvements by Tenant.—Generally the value of improvements placed upon real estate by a tenant does not constitute taxable income to the property owner currently or on termination of the tenancy, but only when the owner disposes of the property. However, the Commissioner of Internal Revenue has published a ruling that the value of such improvements does constitute taxable income to the property owner in the year of improvement when the terms of the lease or the surrounding circumstances disclose the intentions of the parties that such improvements are in lieu of rent.

Bond Premium.—Resolving a conflict between two lower court decisions, the Supreme Court held that a purchaser of convertible bonds callable for redemption on 30 days' notice may amortize in full in the year of purchase the premium paid for the bonds, despite the fact that the premium may have

been due to the privilege of converting into the obligor's stock rather than to a favorable interest yield on the bonds themselves.

Exchange in Kind.—While property held for productive use in trade or business or for investment may be exchanged solely for property of like kind to be so held, without incurring taxable gain or loss, a Circuit Court of Appeals determined that such provision of the Internal Revenue Code does not prohibit the recognition of taxable gain on the receipt of a cash payment by one party to an exchange of farms, although such party also assumed a mortgage on the farm he received but was under no obligation to apply the cash payment on the mortgage and in fact could not do so because of the terms of the mortgage.

Substance versus Form.—A Circuit Court of Appeals has refused to recognize an alleged "joint venture" as a "partnership" under the Internal Revenue Code where set up satisfactorily as to all formal requirements but entered into by the parties solely for the purpose of keeping income taxes down.

Deductible Repairs.—Finding that expenditures by a building owner in replacing floor joists, flooring, and portions of walls were made only to mend deteriorated parts, the Tax Court allowed the deduction of such expenditures as repairs rather than capital improvements, despite such expenditures being substantial in amount and exceeding the depreciated cost of the building.

Conditional Receipt of Check.—Where a check was received on the last day of the year in payment of a fee, the parties agreeing that the check should be held for a few days because of a shortage of funds to the drawer's credit, such check constituted taxable income to the payee only in the subsequent year when cashed. The Tax Court stated that the funds were not subject to the payee's unfettered con-

trol since subject to a valid oral condition.

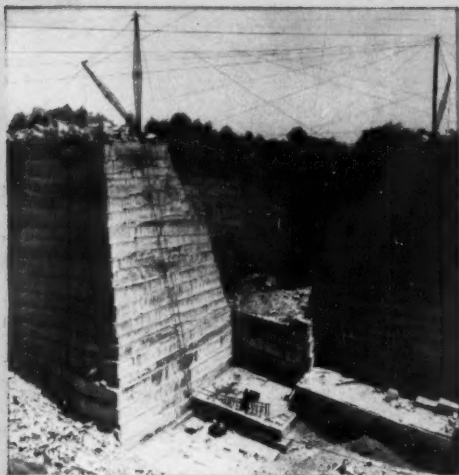
Public Contracts

Renegotiation.—Concerning the Renegotiation Act, a Circuit Court of Appeals has denied that any review whatever can be made by such a court of the Tax Court's decisions either as to the latter's jurisdiction to renegotiate a particular war contractor or the amount, if any, of excessive profits realized. A similar court had previously decided that the jurisdictional question was subject to its review although it could not change the amount of excessive profits, if any, determined by the Tax Court.

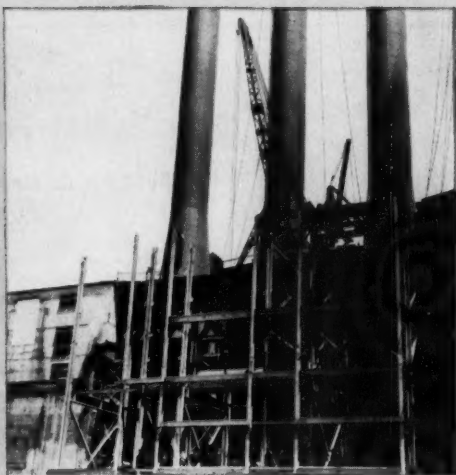
Consideration of Bids.—In the opinion of the Comptroller General, a bid received by a government agency in response to an invitation for competitive bids, the bid having been timely filed but inadvertently misplaced by the agency thereafter, should be fully considered, even though it was not opened at the time set for consideration of bids.

Contract Settlement.—The Office of Contract Settlement Appeal Board has ruled that it has jurisdiction under the Contract Settlement Act of a termination claim by a cost-plus-fixed-fee contractor for reimbursement of costs paid the contractor but thereafter recouped by the government.

Assignment of Claims.—Notwithstanding a contract provision that payments thereunder were not subject to reduction or set-off, the Comptroller General has decided that the claim of a bank holding an assignment of a Navy contractor's right to payment under such contract is subject to set-off of the government's claim for unpaid withholding taxes on wages for the performance of services under the contract subsequent to the assignment. The government's claim did not arise independently of the contract, within the meaning of the Assignment of Claims Act of 1940, the Comptroller General concluded.



Lifting 15-ton blocks of Berea sandstone at the world's largest and deepest sandstone quarry, South Amherst, Ohio. This service is extremely abrasive as the stone is the same type that is used for grinding wheels. The Cleveland Quarries Company has used Tiger Brand Wire Rope on this operation for many years and reports exceptionally good service.

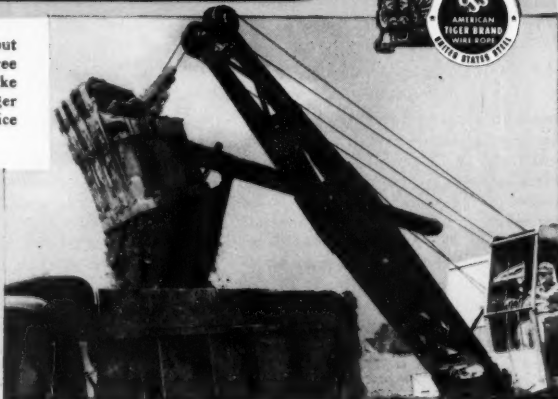


Building a power plant—Wire rope is the connecting link between steel on the ground and steelwork rapidly rising in a new power plant . . . and the longer the rope lasts without time-consuming changes, the more money it makes for the contractor. That's why it pays you to use the best wire rope you can get—TIGER BRAND.

Judge it by the jobs it handles **TIGER BRAND WIRE ROPE**

Digging dirt—the commonest of all operations—but tough, too, because the wire rope is never free from grit. Whether you operate a small shovel like this or the biggest dragline, you'll find a Tiger Brand Wire Rope designed to give the best service in each application.

Outstanding performance month after month in jobs like this proves the superior quality of Tiger Brand Wire Rope. But if you have a special application that's tough on wire rope, call in a Tiger Brand Field Service Engineer. He'll help you select the best rope for your particular needs. In the meantime write for our handbook, "American Tiger Brand Wire Rope."



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AMERICAN TIGER BRAND WIRE ROPE
Excelsay Reformed

UNITED STATES STEEL

A Mark of Distinction

THE CONSTRUCTOR proudly presents in this biggest of July issues the names, addresses and chapter affiliations of all members of The Associated General Contractors of America.

A place on this roster of general contractors is a mark of distinction which has come to be more and more desired with the passing years. The records of these contractors have demonstrated proof of skill, responsibility and integrity—prerequisite to admission to this organization.

Member firms in the A.G.C. are the builders of a greater America. Through their experience and skill cities rise, bridges span torrents, highways link the centers of the nation, and rivers are dammed to make green the desert places.

Collectively through The Associated General Contractors these doers of mighty deeds work toward such practical objectives as: Maintaining the standards of the contracting profession at a professional level; promoting cooperative relationships with other groups within the construction industry for the purpose of increasing the efficiency of the industry's operations; striving to increase economy in construction through research; promoting accident prevention; establishing in cooperation with other groups fair and equitable contract documents and procedures; protecting the legitimate markets of general contractors; and improving wherever possible the business conditions of the industry. All of these sincere efforts benefit the public as well as the members of the association.

In the July issue of 1949 some 5,250 members were recorded. This issue carries the names of some 5,572 members and the list is growing daily.

Last year there were 107 chapters and branches in the United States and Alaska. Today this listing has become 112 and it, too, is increasing.

A general contractor, on becoming a member of the A.G.C., has the recognition and prestige which comes through his identification as a contractor of accepted worth. As set forth in the bylaws, membership in the association is a "reasonable assurance to the public of the skill, integrity and responsibility of its members."

The Construction Outlook

THE revised estimates of the Department of Commerce and Labor (see page 28) place new construction for this year at a probable \$26 billion, which, together with maintenance and repairs, should bring the year's total to around \$35 billion.

The forecast for an unprecedented volume is predicated on both the current record-breaking construction activity and a revision of past and present estimates on the basis of new, more complete data. The extent of the revisions themselves may be judged by the fact that the 1949 original estimate of new construction was \$19.3 billion, and has been raised to \$22.6 billion. The new

items included are residential additions and alterations, dormitories, tourist courts and cabins, atomic energy construction, and more allowances for land development costs and architects' and engineers' fees on all types of construction.

That a high level of construction activity is under way throughout the country is borne out by results of the mid-year survey of industry conditions conducted by The Associated General Contractors of America. (Page 24.)

The poorest outlook in the survey was for highways, although the majority of answers in that category were optimistic. Even though highway construction costs have been dropping steadily, and bid prices have been reported at extremely low averages, a number of states have failed to take advantage of the situation, principally because their financial houses have not been in order. An encouraging note in the poor state of our highway affairs is the decision of the recent governors' conference (see page 49) to assume more active leadership in attacking the problem.

In the building field, booming conditions have been reported in many parts of the country, with shortages appearing in some locations in supplies of both labor and materials. These shortages can be expected to increase as the peak of seasonal activity approaches. Building contractors who have participated fully in apprentice training programs can look back with some justifiable pride on their foresight during the immediate postwar years.

While the spotlight has played on the sensational rise in residential construction, a significant new change is noted on the construction scene—the upturning of industrial construction after a three-year decline.

So we have business confidence returning to the picture, plus a large volume of public works. Commercial construction is expanding along with the residential upsurge brought about by rising and shifting populations.

The picture, for the remainder of 1950 and beyond—barring any explosion from the serious international situation—is certainly bright at this point.

Full Value to the Owner

THE survey of conditions in the construction industry just completed by The Associated General Contractors of America reveals that the strength of bidding competition continues unabated, although a record volume year is in sight.

This indicates that the contracting industry, after the disruption of World War II, has expanded its capacity gradually, but steadily, during one year of record activity after another, and is capable of performing a high level of work in future years to meet the great demands of an expanding economy and population.

It also indicates that the owner is getting full value for his construction dollar as the general contractor holds down bid prices in the face of rising labor and materials costs.

Any Structure of

Fabricated Structural Steel

is a Job for **ALLIED**

These steel structures are good examples of Allied's versatility in meeting today's specialized building needs. Here specialized skill of workers in the plants "pays off" in steel for a river bridge, industrial and educational buildings . . . the mass tonnage fabricated to exact specifications and delivered on schedule.

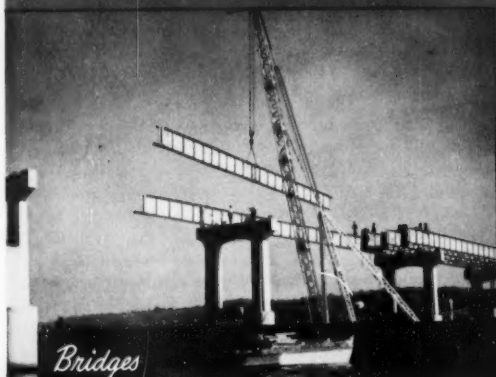
Of course, complete mechanical equipment in Allied's 3 plants lends wings to all fabrication operations.

Offers, too, cost-saving advantages interesting to those who contemplate building. Send your plans and specifications to us for estimating.



School Buildings

Crews moved "super-fast" to fabricate and deliver steel on schedule for the Hinsdale, Ill. school.



Bridges

5000 Tons of steel were erected by Allied for this huge bridge at Peoria, Illinois.



Industrial Buildings

Casting plant of Aluminum Co. of America, Millvale, Ill. 2000 tons were fabricated and erected.



Air Line Pilots Headquarters

Allied's 3 plants, operating as one fabricator, turned out steel for this Chicago Air Line Pilot's Administration Building.



Divisions:

Clinton Bridge Corporation

Gage Structural Steel Corporation

Midland Structural Steel Corporation

» IN 1918 when The Associated General Contractors of America was founded, there was little recognition of the construction industry or appreciation of the volume and importance of its work. Last year the industry, now recognized as the nation's second largest, performed a record breaking volume of work amounting to 11 per cent of the national product.

On November 21, 1918, 97 general contractors met to form an organization that would raise the standards of the industry to a high professional

Directory of Membership

Page 173

plane, and through work beneficial to the construction industry, the public and its membership, achieve a reputation for skill, integrity and responsibility. This has been accomplished. In the 32 years of A.G.C.'s existence, the emblem of the association has come to be regarded as a hallmark of quality. The history of the association has been one of steady and consistent growth in numbers, influence and prestige.

From a nucleus of less than one hundred, A.G.C. now numbers 5,572 members with 112 chapters and branches in all parts of the United States and Alaska. Since the Directory Issue of THE CONSTRUCTOR for

Membership in A.G.C. Soars to 5,572 Total in 112 Chapters

- General Contractor Units Throughout U. S., Alaska
- Association in 32nd Year as Industry Leader
- Playing Key Role in Upholding Construction Standards

July 1949 was published, 303 members and four chapters have been added.

In keeping with its aims, the requirements for membership in A.G.C. have always been high. A general contractor must prove that he has the qualities of skill, integrity and responsibility before he is admitted.

A feature of THE CONSTRUCTOR in each July issue is publication of the complete membership list of the association. It starts on Page 173. Names of the construction firms are printed alphabetically starting on Page 191. The roster by states which also carries the names of the president and executive of each chapter starts on Page 226. The names of the officers, members of the executive committee, directors, members of the advisory board, and members of all committees start on Page 174.

In construction, general contractors are key figures which have the central responsibility for executing work on site. The Associated General Contractors of America is the nation-wide association working toward conditions under which general contractors can operate at maximum efficiency. Its activities are directed toward helping the members in their daily operations.

There are prospects for a level of total construction activity approaching thirty billion dollars this year, and continuing at such a level for years to come.

The association, locally and nationally, has a heavy responsibility to carry out its activities so that general contractors can continue to operate in such a way as to secure to the public increasing value for its investment in construction.

Jobs on which the A.G.C. emblem is displayed are recognized as in the hands of general contractors of skill, integrity and responsibility. This public recognition has come to mean a lot in the construction industry.

The report of the British Building Productivity Team, given elsewhere in this issue, shows clearly how the A.G.C. impressed the visiting delegation. It states: "Practically all general contracting firms of standing (in the United States) are organized nationally in the Associated General Contractors of America, Inc."

Construction Firms Listed by Type of Work

- Perform Estimated 80 Per Cent of All Work by Contract

» A WIDE variety of construction projects essential to the growth and development of the nation and its communities are executed by members of The Associated General Contractors of America.

In the roster by states, starting on Page 226, members list the general types of construction which they perform such as building, highway and airport, or heavy and railroad construction. Some contracting firms confine themselves to one general type of work. Others engage in a wider variety. A compilation of the listings is as follows:

Some 2,279 A.G.C. members, either exclusively or as part of their activities, perform heavy engineering and railroad construction which include dams, tunnels, bridges, railroads, water mains, foundations, piers, viaducts, subways, drainage, irrigation and sanitation projects, water power development, docks, locks, levees,

flood control and harbor dredging projects, pipelines and transmission lines.

Another 2,388 A.G.C. members, either exclusively or in addition to other work, construct highways, streets, alleys, sidewalks, parkways, airports, athletic fields, highway bridges and sewage and waterworks incidental to street and highway improvement.

Approximately 3,000 A.G.C. members as all or part of their activities, perform building construction such as industrial plants, office buildings, apartments, hotels, large scale residential projects, warehouses, hospitals, churches, theatres, public buildings, department stores and other commercial projects, as well as additions and repairs to building structures.

It is estimated that A.G.C. members execute about 80 per cent of such construction undertaken by contract.

A.G.C. Meeting Dates

Times and places of future A.G.C. meetings are:

Mid-year Board Meeting—Lookout Mountain Hotel, Chattanooga, Tennessee, September 11-13, 1950. Hosts are: Nashville, Chattanooga, Memphis, Knoxville and Tri-Cities chapters.

32nd Annual Convention—Statler Hotel, Boston, Massachusetts, February 26-March 1, 1951. Host is—A.G.C. of Massachusetts.

Competition Continues Strong in Construction's Biggest Year

- Battle of Bidders for Contracts Benefit Owners
- Some Labor and Material Shortages Appearing
- Poll Shows Prospects Bright for Balance of 1950

» WHILE CARRYING out the largest volume of construction in peace-time history, strong competition continues to prevail in the general contracting industry in the construction of industrial, commercial and institutional buildings; highways, airports and railroads; public utilities, pipelines, dams and other engineering projects.

\$26 Billion New Construction Forecast—Page 28

One effect of the competition has been to continue to hold down construction costs to owners while prices to general contractors have increased.

Such a tremendous volume of construction is being carried on throughout the country that shortages of manpower and materials have appeared in a number of communities. Wage rates and materials prices have shown increases in recent months.

Although some increases in prices to owners may result on projects to be awarded, no major increases in construction costs for the larger types of construction projects is expected.

The majority of general contractors expect the volume of construction to continue at a high level the balance of 1950.

Big 1950 Volume

These are the major conclusions reached in a survey of conditions in the general contracting industry announced by The Associated General Contractors of America. The survey was taken in June as the peak of the year's construction activity was approaching.

The survey was conducted among the association's 112 local affiliated organizations and among its directors throughout the United States and Alaska, representing the leading firms which annually perform an estimated 80 per cent of the nation's contract construction.

On the basis of present indications, the volume of new construction for 1950 is expected to exceed \$22 billion,

and the total volume of construction, including maintenance and repair operations, to exceed \$30 billion.

Highways Lagging

Highway construction is lagging due to failure by some states to finance their construction programs and to the fact that other states had exhausted their federal aid funds. In response to the survey's question on current volume of all construction, 89 per cent reported "good" to "excellent." Seven per cent, mostly highway contractors, reported "poor." Four per cent answered "fair." With respect to the outlook for the balance of 1950, 85 per cent regarded the immediate future as bright. Here again, eight per cent—all highway contractors—answered "poor." Seven per cent reported "fair."

Competition was characterized by 97 per cent as "strong," "very strong," "fierce," "rugged," etc., with only three per cent reporting "normal" or "slightly diminishing."

Labor and material prices were reported up somewhat by 58 per cent, with 30 per cent reporting them as stabilized. The remaining 12 per cent, all highway contractors, reported costs down. Many of those replying to the study's questions noted that bids were down while prices were up.

Shortages Reported

In the field of labor, 59 per cent reported no shortages. Trowel trades represented 63 per cent of the 41 per cent announcing labor shortages.

Slightly over half of the answers claimed shortages of materials, the principal ones being steel 25 per cent, cement 25 per cent, lumber 19 per cent, brick eight per cent and gypsum four per cent. The balance of 19 per cent includes such items as wall board, small pipe, plywood, sheetrock, clay tile, glazed tile, plasterboard, metal lath, plumbing, soil pipe and fittings, rock lath, concrete block, roofing material. Forty seven per cent found supplies adequate.

Building

The survey shows that building construction is thriving, with 94 per cent of the building replies reporting current volume "good" to "excellent"—six per cent "fair" to "poor." In this group, 90 per cent saw prospects for balance of 1950 as "good" to "excellent"—10 per cent as "fair." Competition was rated "strong" by 96 per cent and "normal" by four per cent. Costs are up in 74 per cent of the replies and stabilized in 23 per cent, while three per cent reported them down. Shortages in materials were reported by 59 per cent and shortages of labor by 48 per cent.

Highway

The survey shows that highway construction is not at its peak with 75 per cent of highway replies reporting current volume "good" to "excellent" and 25 per cent "fair" to "poor." In this group, 69 per cent saw prospects for the balance of 1950 as "good" to "excellent" and 31 per cent "fair" to "poor." Competition was rated "strong" by 100 per cent. Costs were up in 27 per cent of the replies, stabilized in 30 per cent and down in 43 per cent. Shortages of materials were reported by 47 per cent and shortages of labor by 16 per cent.

Heavy Engineering Construction

The breakdown of replies from heavy contractors shows a healthy condition comparable to that of building construction. In response to the query on current volume, 90 per cent replied "good" to "excellent" and 10 per cent "fair" to "poor." In this group, 81 per cent saw prospects for the balance of 1950 as "good" to "excellent" and 19 per cent from "fair" to "poor." Competition was rated as "strong" by 96 per cent and "normal" by four per cent. Costs on this contracting division were reported up by 64 per cent and stabilized by 32 per cent. Shortages of materials were reported by 47 per cent and shortages of labor by 36 per cent.

Typical Comments

Some of the comments received in the survey follow:

"... Bidding competition is more acute with a greater number of bidders on each project, and work apparently going at lower prices..."—East South Central chapter, builders.

"Cost trend to owner is down due to (Continued on page 27)"

OVER **60%** OF ALL **EUCLIDS** SOLD
ARE **REPEAT ORDERS . . .**

**PROOF of CUSTOMER
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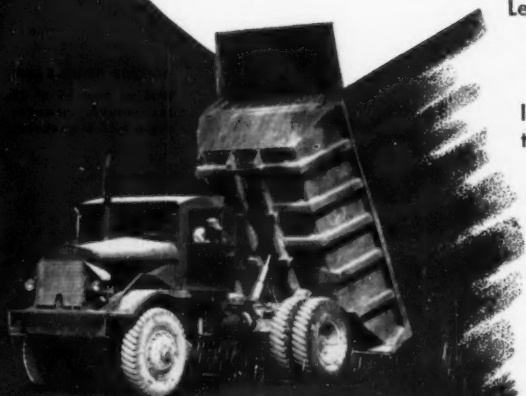


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Nine out of every 11 Euclids built are still in use today. Their ability to stay on the job year after year under a wide range of operating conditions means more yards moved at greater profit.

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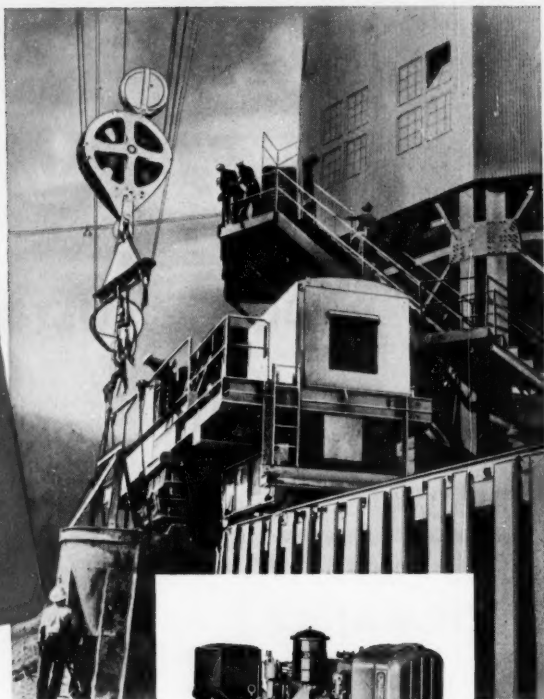
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A CONCRETE Case for

**GM
DIESEL
POWER**



Built by Washington Iron Works, Seattle, the concrete cars at Hungry Horse Dam have a top speed of 5 m.p.h. with a capacity payload of 32 tons. Each is equipped with a 4-cylinder GM Series 71 Diesel generator set furnishing power to two 20-h.p. traction motors.

THREE specially built Diesel-electric concrete cars, used by the General-Shea-Morrison group at Hungry Horse Dam, are a vital link in the carefully planned facilities with which the contractor expects to place a million cubic yards of concrete this year.

Carrying two 8-yard side dump hoppers, the cars move concrete from the mixing plant to points directly under cableways where they discharge into buckets. This eliminates time lost moving buckets on and off cars—saves travelling time of the 500-ton cableway tail towers—increases cableway capacity by at least 25%.

It's a job that calls for smooth coordination. There

can be no failure or falter. Shutdowns would be costly. So General Motors Diesel generator sets were a natural choice to power these cars.

Because they are 2-cycle, with power at every downstroke, GM Series 71 engines are compact, smoother in operation and quicker starting. They are designed for easier servicing; have no high pressure fuel lines and offer maximum interchangeability of parts.

Add to these advantages their higher power-per-pound, their economy and rugged durability, and you'll see why contractors everywhere are turning to GM Diesels. Get the full story from your local equipment dealer or write direct to us.

DETROIT DIESEL ENGINE DIVISION

SINGLE ENGINES...Up to 275 H. P.

DETROIT 28, MICHIGAN

MULTIPLE UNITS...Up to 800 H. P.

GENERAL MOTORS

DIESEL BRAVN WITHOUT THE BULK



(Continued from page 24)

intense competition. Ten bidders or more on most jobs with many new contractors coming into the area. Profit margin is apparently thin with practically all jobs going below architects' or engineers' estimates. High volume is expected to continue through balance of 1950."—West South Central chapter, builders.

"Bidding competition is more than healthy at present time. . . . Current volume is stable, and taking into consideration housing, will remain this way through 1950 with a possibility of a slight increase by September or October. . . ."—South Atlantic chapter, all types.

" . . . We believe that during the past two months (costs) have had an inclination to increase, and we anticipate further increases in cost due principally to increased wage rates and costs of materials. . . . There still seems to be an abundance of bidders on all jobs."—Pacific heavy-highway contractor.

"Bidding competition all types of work exceptionally keen. Current volume, which is expected to be maintained through 1950, is highest in history. Volume of public projects has increased sharply, and contrary to many predictions, private construction volume has not abated."—South Atlantic chapter, all types.

"Materials adequate except that lumber is critical and steel deliveries slow. Labor adequate. Cost trends definitely stabilized, except that lumber has increased. Volume greatest in history with no indication of any decrease for heavy construction."—Pacific chapter, heavy-highway.

"Largest volume of construction here in residence, school, church and industrial since war boom and at highest peacetime peak ever. . . ."—East North Central chapter, builders.

"No apparent shortages of materials or labor despite tremendous volume of work under way. Cost trends are definitely downward. Plenty of competition."—Middle Atlantic chapter, highway-heavy.

"Current volume is highest in history and the business outlook for the latter part of 1950 is good so far as volume of construction is concerned. Cost trends in major types of construction are definitely up. Bidding competition is keener than before the war."—Mountain chapter, builders.

"Current volume parallels 1949 with no increase foreseen for remain-

der of 1950. Volume for 1949 and 1950 not as good as 1948."—East North Central chapter, highway.

"Due to excessive amount of highway construction recently awarded in this area, shortages are developing in materials that may become extremely critical as season advances. Steel, cement, and even aggregates are being oversold which means a mad scramble

Previous Survey

For comparison purposes, here are the major results of the last survey conducted by the A.G.C. in the latter part of February 1950:

Costs: 50.5 per cent reported stabilized; 42.5 per cent, still tending downward; 4.4 per cent, unchanged; 2.6 per cent, going slightly up. Most building contractors reported costs stabilized; more than 80 per cent of highway organizations, costs going down; two-thirds of heavy replies, cost stabilized, the remaining one-third, downward. The average cost stabilization reported was 9.9 per cent below the postwar peak. (No percentage was requested in the latest survey.)

Volume: 44.3 per cent reported more work coming on the market; 34.5 per cent unchanged; 20.4 per cent, less. Highway replies were: 45.5 per cent, increased work; 36.4 per cent, unchanged; 18.1 per cent, less. Heavy replies: 44.4 per cent, increased work; 44.4 per cent, unchanged; 11.2 per cent, less.

Materials: 95.7 per cent of all answers, adequate supply.

Equipment: Almost all reported adequate.

Manpower: 96.5 per cent reported adequate, some predicted trowel shortages.

Productivity: 92.9 per cent reported increased worker productivity. (This question was not asked in the present survey.)

Competition: 100 per cent reported greatly increased competition among contractors, sellers of equipment and materials. It was reported alternately as "stimulating," "healthy," "fierce," "hellish," "rugged," and "dangerous."

for deliveries of such materials as have to be handled with recourse to advance storing. Skilled experienced labor is being pirated from job to job. . . . Cost to owners decreasing due to keen competition among contractors for gross amounts of business with small profit margin."—Middle Atlantic, heavy contractor.

" . . . Highway cost trend slightly higher due to higher repair costs and some wage increases. Bidding competition terrific with bid prices still going lower. Current and future volume comparatively high, but not equal to contractors' combined capacity."—West North Central highway contractor.

"In road construction, materials and all class of labor plentiful. Bid prices are lousy with competition a dime a dozen. Volume is low. . . . Middle Atlantic chapter, highways.

"Labor this area adequate with shortage of gypsum products and slow delivery of cement, lumber, brick, doors and architectural projected windows. Cost trend in building construction slightly upward. Heavy and highway construction slightly downward. Bidding highly competitive. Current volume all types of construction fairly heavy for this area with prospect of continuing for remainder of year."—Mountain.

"Cost trends of major construction up slightly. Bidding competition keen. Current volume good, outlook for latter part of 1950 for area best in years."—West South Central chapter, builders.

" . . . Possible shortage of cement latter part of year. Cost trend down. Bidding competition keen. Current volume good. Outlook good."—West South Central chapter, principally highway-heavy.

" . . . Competition most severe in 17 years. Current high volume should continue for balance of year with emphasis on residential construction."—West South Central, builder.

"Materials satisfactory with the exception of clay products which are short. Labor supply satisfactory although shortage of bricklayers is indicated. Cost trends advancing because of increased prices clay products and probably steel and because of labor's insistence on wage increases. Competition continues exceedingly bitter. Volume of work is large and promises to increase as far as the state as a whole is concerned."—South Atlantic chapter, builders.

1950 New Construction Forecast: \$26 Billion

• Departments of Commerce, Labor Announce Revised Estimates

» OUTLAYS for new construction this year are expected to reach a total of nearly \$26 billion, according to revised estimates revealed this month by the Construction Division, U. S. Department of Commerce and the U. S. Labor Department's Bureau of Labor Statistics.

This unprecedented volume of expenditures for new construction in 1950 is anticipated on the basis of record-breaking construction activity during the first half of the year and indications that the last half will see virtually no let-up in the current building boom. The estimate was predicated on no significant change in the international situation.

The \$26 billion figure anticipated for 1950 is 14 per cent above the revised estimate of \$22.6 billion spent in 1949. During the first half of the year, expenditures for all types of new construction ran 17 per cent above the corresponding period in 1949. A seasonal downturn in construction activity is expected in the late fall and winter this year, in contrast with last year's contra-seasonal increase, particularly in home-building.

So far this year, outlays for new private nonfarm housing are 48 per cent above the 1949 first-half volume. Expenditures for hospitals, schools, and reclamation and flood control projects also are substantially higher, but highway construction is at about the same level as last year.

Private outlays for new dwelling construction for the entire year 1950 are expected to total about \$10 billion, compared with \$7.3 billion last year.

"Indications are that close to 1,250,000 new dwellings (including about 50,000 public housing units) will be placed under construction in 1950, surpassing by far the 1949 record of 1,026,000 and the previous high of 937,000 units in 1925," the agencies stated.

Construction of stores and other retail establishments has expanded in recent months. Industrial construction, after a three-year decline, also has turned upward. Public utility construction is declining slightly, especially communication facilities.

"The high level of construction activity that has prevailed since last fall has brought pressure on supplies of materials and skilled labor. Increased

production of materials and additional skilled craftsmen made available through apprentice training programs should prevent any serious over-all supply difficulties such as those experienced immediately after World War II," the joint statement said.

The data given in the following table include several additional items not previously a part of the series, such as

residential additions and alterations, dormitories, tourist courts and cabins and atomic energy projects. They also include a more adequate allowance for land development costs and for architects' and engineers' fees on all types of construction. The estimates of farm construction have been revised upward substantially on the basis of new information that recently became available. The entire series on construction activity is being revised to provide comparable estimates back to 1915.

Revised New Construction Estimates* (Millions of Dollars)

TYPE OF CONSTRUCTION	FIRST 6 MONTHS			
	1949	1950**	1949	1950
Total new construction	22,594	25,850	9,993	11,700
Total private	16,204	19,000	7,305	8,759
Residential (excl. farm).....	8,290	11,000	3,467	5,118
New dwelling units.....	7,280	10,000	2,997	4,669
Additions and alterations.....	825	835	380	386
Nonhousekeeping***.....	185	165	90	72
Nonresidential bldg.....	3,228	3,585	1,621	1,588
Industrial.....	972	1,000	556	429
Warehouses, office & loft bldgs.	321	340	166	158
Stores, restaurants and garages	706	845	338	353
Other nonresidential bldg.....	1,229	1,400	561	648
Religious.....	360	385	164	180
Educational.....	269	295	128	130
Hospital and institutional....	202	345	77	165
Social and recreational.....	262	240	127	112
Miscellaneous.....	136	135	65	61
Farm construction.....	1,292	1,090	621	524
Public utility.....	3,316	3,185	1,562	1,465
Railroad.....	352	310	176	140
Telephone and telegraph.....	533	475	290	223
Other public utility.....	2,431	2,400	1,096	1,102
All other private.....	78	140	34	64
Total public	6,390	6,850	2,688	2,941
Residential.....	359	400	139	174
Nonresidential bldg.....	2,056	2,220	923	1,036
Industrial.....	177	200	112	73
Educational.....	934	1,050	427	508
Hospital and institutional.....	477	525	206	241
Other nonresidential bldg.....	168	445	178	214
Military and naval.....	137	135	53	55
Highway.....	2,129	2,200	809	830
Sewer and water.....	619	630	297	299
Misc. public service enterprises....	203	185	82	78
Conservation and development.....	792	975	342	419
All other public.....	95	105	43	50

* Joint estimates of the Departments of Commerce and Labor.

** Probable volume.

*** Includes hotels, dormitories, and tourist courts and cabins.

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and fast!**



Jaeger paver-type aggregate spreader

Self-propelled — 4 wheel drive.

Operates entirely on subgrade — no displacement of newly-spread materials. Blends joints.

Lays up to 9" thickness, up to 12½' width, with straightedge accuracy.

All base and surface aggregates, plant-mixed stabilized soil or free-flowing bituminous mixes.



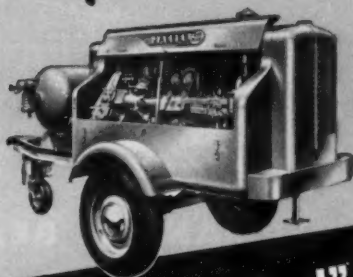
So low in cost you can use two spreaders in tandem to lay full width base, roll in one operation, keep your higher-priced paver busy laying top course — at tremendous saving. Ask for Catalog SPS-9.

"Teams" with this Jaeger Bituminous Paver:

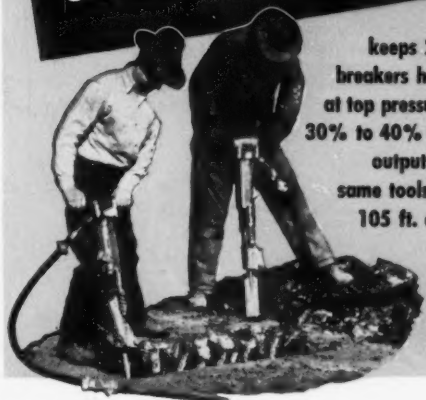
Latest type precision machine for all types of bituminous materials — self-adjusting to widths to 12½', automatic leveling, paves flush to curbs, gutters, operates entirely on subgrade or compacted course. Ask for Catalog BP-9.



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at top pressure —
30% to 40% more
output than
same tools with
105 ft. of air**

Every Jaeger "new standard" compressor delivers 15% to 25% more air than old ratings, at full 100 lbs. pressure. From the Model 75 (for one heavy breaker) to the Model 600 (for 2 heavy wagon drills) that higher capacity insures steady full pressure instead of weak 70 lbs. pressure behind your tools — as much work done in 3 days as you used to do in 4 — with the same men and tools.

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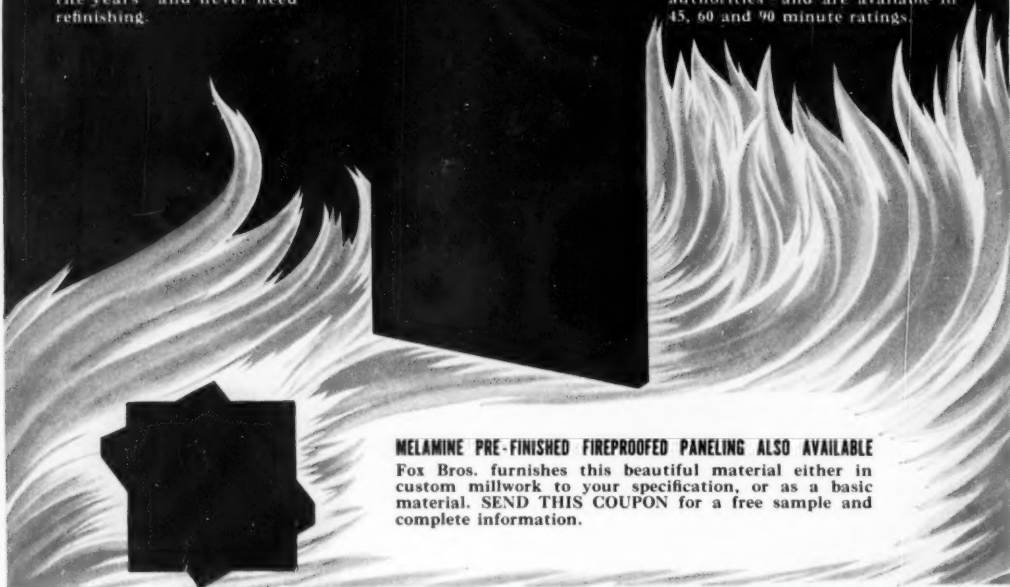
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» DID YOU sustain a loss under any contract or subcontract of a war agency between September 16, 1940 and August 14, 1945?

Have you a claim or notice of losses on file with any department or agency that will qualify you for relief?

If so, you will be financially interested in the Act to Amend the War Contractors Relief Act passed by the Senate on June 9, 1950. The House of Representatives on June 15, 1950, accepted the Senate version of the bill and cleared it for Presidential action.

President Vetoes Bill—Following Page

If this bill becomes law it will mark the fulfillment of more than two years of continuous emphasis by The Associated General Contractors of America on the need for such amendatory legislation for relief from losses sustained by its members on war contracts through no fault of the contractor.

The original Lucas Act became law on August 7, 1946. Claims of contractors, subcontractors, and material men had to be filed with the department or agency concerned within six months after this date. The report of the Senate Judiciary Committee mentions the fact that under the original act only one contractor has actually been paid, although many others recorded notice of losses.

A.G.C. Recommended Changes

The law became inoperative largely because of erroneous and restrictive interpretations premised on the Government's ruling that the act was a mere continuation of the First War Powers Act. Hence, the war having ended, the relief provisions of the First War Powers Act authorizing adjustments to "facilitate the prosecution of the war" were no longer in operation and the claims were denied.

To correct this inequitable situation, bills were introduced in both the Senate and House of Representatives and referred to the appropriate committees. The Senate Judiciary Committee held public hearings on the Senate bill. At that time representatives of the A.G.C. recommended the adoption by the committee of several amendments designed to revoke the existing harsh interpretations so as to insure relief to the contractors. Many of these recommendations were adopted by the committee and are included in the act as passed by the Congress.

Congress Amends Lucas Act

• Both Legislative Bodies Approve the Allowance of War Contractors' Hardship Claims

By John C. Hayes

Hayes and Hayes, Washington, D. C.

The following is an analysis of the bill to amend the War Contractors Relief Act as adopted by the Congress:

The purpose of the act is to amend the Lucas Act with respect to redefinition of request for relief. This is accomplished by amending the act of August 7, 1946 (Lucas Act) by adding at the end of Section 2 a new subsection (c), by amending Sections 3 and 6, and by adding new Sections 7 and 8.

New Amendments Listed

The amendments as set forth in the Senate Judiciary Committee's report and adopted and incorporated in the amended sections and the new sections of the act are as follows:

(1) Amendment redefining contractors, subcontractors, and material men with respect to partnerships, joint ventures, or business associations to refer to an entity and not to the members thereof.

(2) Amendment relating to the effective date of the Lucas Act of June 25, 1949, with respect to jurisdiction of the District Courts and the Court of Claims.

(3) Amendment relating to reconsideration of the claims previously filed under the Lucas Act and to permit claimants to amend complaints or petitions in pending court actions.

(4) Amendment defining the terms contractors, subcontractors, and material men to mean individuals, partnerships, joint ventures, business associations, and corporations.

(5) Amendment adding the words "or other final action on a request for relief" in order to better clarify and effectuate the purpose of the act.

(6) Amendment to Section 3 adding the words "or filed with a subcontractor by a sub-subcontractor" for the purpose of protecting a sub-subcontractor who filed a request for relief with his subcontractor.

(7) Amendment to allow as costs the reasonable salaries of working partners or sole proprietors under certain circumstances.

(8) Amendment to allow as costs interests at a reasonable rate paid by



Mr. Hayes is Legal Advisor to The Associated General Contractors of America and The Constructor.

the contractor on borrowed capital for the purpose of the performance of contracts or subcontracts.

(9) Amendment providing for the reconsideration of claims. This amendment is included in the new Section 8 of the act.

(10) Amendment adding the words "regardless of its nature" in Section 3. This was added to make it clear that the word "settlement" preceding the added words means a bilateral settlement.

The Judiciary Committee rejected a proposed amendment which would have allowed the amount of net loss on each contract or subcontract held by a claimant between September 16, 1940 and August 14, 1945. The committee was of the opinion that this amendment should not be enacted for the reason that opportunity often was afforded the contractor who lost on one contract to recoup by the awarding of a new contract.

The foregoing analysis largely covers changes in the act to amend the

War Contractors Relief Act as amended. However, before concluding the analysis of this act, specific attention should be directed to the following language in Section 3 of the act as amended:

"Claims for losses shall not be considered unless filed with the department or agency concerned on or before February 7, 1947, and unless a written request for relief, or a demand for payment of such losses, or a notice of such losses, sustained or impending, adequate under the circumstances to apprise such department or agency of the distress of the contractor was filed or submitted to such department or agency or to any of its subordinate officers on or before August 14, 1945. * * * A request for relief, or a demand for payment of losses or a notice of such losses, sustained or impending, adequate under the circumstances to apprise such department or agency of the distress of the contractor which had been submitted to or filed with a prime

Government contractor by a subcontractor, or with a subcontractor by a sub-subcontractor, prior to August 14, 1945, shall constitute a proper and sufficient request for relief within the terms of this Act."

Contractors should give special attention to the foregoing provisions, as it will be noted that the provisions relating to what is necessary to constitute a claim have been materially broadened. The act makes it plain that the notice of losses sustained or impending, rather than the form of request for relief, is the important consideration.

Finally, attention is directed to provisions relating to the time limit that have been added in the new Section 8, as follows:

"Any claimant shall be permitted within sixty days after the effective date of this section to revise his claim or amend his complaint or petition and to revive his action if necessary, to seek relief in accordance with this Act, as amended as of such date."

President Vetoes Relief Act Amendment

• Lists Seven Provisions He Would Like in Such Legislation

✶ AFTER the preceding article was prepared, President Truman, on June 30, vetoed H. R. 3436, the bill to amend the War Contractors Relief Act. His message reads in part as follows:

"In taking this action, I wish to make it clear to the Congress that I am not opposed to legislation that would insure an equitable settlement of the claims filed under the original War Contractors Relief Act. If the Congress will take prompt action on such a measure, I shall be glad to approve it. . . .

"In spite of my objections to the scope of H. R. 3436 and the principles which I believe it would write into law, I am convinced that agreement can be reached upon what the Government has a clear-cut obligation to do. To that end, I wish to repeat that I shall be glad to approve a bill which limits its amendment and interpretation of the War Contractors Relief Act as suggested in this message.

"I believe that a bill incorporating the following seven provisions would be fair and would permit equitable settlement of those claims, unsettled at the end of the war, which the Con-

gress feels have been rejected on the basis of 'flimsy technicalities.'

"1. Authorize reconsideration of the claims filed in accordance with the provisions of the original War Contractors Relief Act.

"2. Remove the basis of technical rejection by permitting either a request in writing for relief under the first War Powers Act, or a written demand for payment of losses, or a written notice of sustained or impending loss, if timely filed, to be accepted as a basis for claim.

"3. Authorize consideration and settlement of the claims of subcontractors on the same basis of the prime contractors if the same kind of written request, demand, or notice was filed with a Government agency, a prime contractor, or another subcontractor prior to August 14, 1945.

"4. Permit reasonable compensation with respect to partners and proprietors, thus affording them the same treatment accorded corporations.

"5. Preserve jurisdiction of the courts over suits now pending and not require any claimant to start over again in the presentation of his claim.

"6. Permit a reasonable time, per-

FTC "Watchdog" Committee

Following the President's veto, on June 16, of S. 1008, designed to clarify the rights of sellers to adopt delivered pricing systems, the Senate Commerce Committee announced the appointment of a "watchdog" subcommittee to keep a daily watch on Federal Trade Commission actions in policing industry pricing practices.

The intent of the bill adopted by Congress was to require that the FTC, or the courts, find that there had been a substantial reduction in competition through the absorption of freight costs or the adoption of delivered pricing systems.

Under the law as it stands now, the commission or the courts need to find only that there is a "reasonable possibility" that a delivered pricing plan reduces competition for it to be declared illegal.

In his brief veto message, the President stated in part:

"I recognize that businessmen have been concerned lest they be penalized for perfectly sensible and appropriate competitive action. I believe their concern is unwarranted. If in the future there should be clear evidence to the contrary, the law should, of course, be changed."

Members of the watchdog committee are Chairman Johnson (D. Colo.), and Senators Myers (D. Penna.), O'Connor (D. Md.), Capehart (R. Ind.), and Bricker (R. Ohio).

Belief is expressed by Senate Leader Scott Lucas (D. Ill.) that there is little chance of the basing point bill being passed over the presidential veto. The original measure received a vote of 43 to 27 and even its proponents feel a two-thirds majority impossible at this time. Prospects of the bill being introduced again in the next session are considered good as its backers feel legislative action is needed to relieve the situation.

haps sixty days, for amendment or revival of any claim.

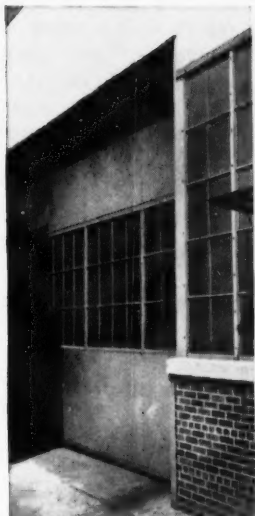
"7. Include the clarifying definitions of section 7 of H. R. 3436.

"Prompt enactment of such legislation will make it possible for the Executive agencies and the courts to discharge the responsibilities which I am convinced they cannot equitably discharge under the measure I am returning without my approval."



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29 openings of Truscon Vertical Lift Steel Doors (manually operated) in the Sears-Roebuck warehouse, Dallas, Texas. George E. Dahl, Architect. Dolph Construction Company, Contractors. In both the electrically- and manually-operated types of Truscon Vertical Lift Steel Doors, the leaves are perfectly balanced by counterweights to assure easy operation and control in any position.

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The door requirements of garages, warehouses, loading platforms, factories and other commercial structures can be served with high efficiency by Truscon Vertical Lift Doors. The flick of a finger starts the electrically-powered door leaves sliding vertically upward, with silent speed, to any height desired. The bottom leaf rests behind the plane of the top leaf, and moves simultaneously with it but at twice the speed. Strong construction of hot-rolled new billet steel provides durability to resist crashes and other accidental injury. Write for illustrated literature describing types and sizes available.



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» A LIMITATION on force account expenditures by the Tennessee Valley Authority for construction operations was recommended to a Senate Appropriations subcommittee on June 22 by The Associated General Contractors of America.

In presenting this recommendation, H. E. Foreman, managing director of the A.G.C., pointed out that practically all of TVA's construction with the exception of equipment and specialized operations has been performed by force account. Competitive bids by construction contractors have not been invited or considered, although this method has been unqualifiedly advocated by the Corps of Engineers, Bureau of Public Roads, Public Buildings Administration, and for the past three years by the Bureau of Reclamation.

"The Senate Appropriations Committee has in the past received abundant evidence of the economic advantages to the government resulting from the awarding of construction contracts to the lowest responsible bidders under

A.G.C. Condemns TVA Force Account Labor

• Contract System and Keen Competition Can Mean Savings

the contract system," he declared.

Mr. Foreman called attention to the fact that in 16 years, TVA has constructed 17 dams, many hydro-electric power plants, extensive power distribution facilities, facilities for navigation and many other structures for a variety of uses. Its multi-purpose water control system alone represents an investment of federal funds amounting to \$816 million. It is presently engaged in the construction of a large steam power plant at Johnsonville, Tennessee, and is about to ask for an appropriation of \$35 million for another steam plant at Widow's Creek, Alabama.

"Why has TVA been permitted to operate in this uneconomical manner for 16 years?" the A.G.C. executive demanded. "Is the public interest being properly safeguarded where TVA constructs projects with no authentic

check on the cost of these projects?

"There are in the United States many contractors fully competent technically, financially and by experience to construct the works called for by the TVA program. Many of these firms are resident in or in areas adjacent to the Tennessee Valley Authority," he said.

"Now by awarding construction contracts to the lowest responsible bidders, the government may take advantage of the prevailing 'rugged competition' which will inevitably result in great economies. The number of bids on public construction contracts has been continually increasing. TVA's construction projects are certain to attract highly competitive bids from the nation's most competent and efficient contractors," Mr. Foreman predicted.

Senate Ponders Federal Aid Highway Bill

• May Recommend Raising Appropriation Approved by House

» THE SENATE Public Works Committee was expected to report its version of federal-aid highway legislation before the middle of July.

Recommendations are being made for the bill to authorize funds totaling approximately \$733 million for each of the two fiscal years ending June 30, 1952 and 1953.

This sum would be greater than the \$645.5 million authorized in the bill passed by the House, but less than the \$970 million authorized by the bill previously introduced by Senator Chavez, chairman of the Senate committee.

Recommendations for annual authorizations which the committee was to consider are as follows:

Federal-aid systems—\$550,000,000. (Primary, \$225,000,000; secondary, \$200,000,000; urban, \$125,000,000.)

Interstate system, \$70,000,000; forest highways, \$20,000,000; forest roads, \$20,000,000; park roads, \$10,000,000; parkways, \$15,000,000; Indian roads, \$10,000,000; emergency, \$10,000,000; inter-American, \$8,000,000; Rama road, Nicaragua, \$4,000,000; access roads, \$10,000,000; Tongass Forest, \$3,500,000; public domain, \$5,000,000.

The original Chavez bill, S. 3424, had contained a provision of \$75 million annually for county roads. A recommendation was made to the committee to drop this feature, but increase the authorization for secondary roads from \$150 to \$200 million, with the provision that these funds be used primarily for rural roads, and that each state highway department should establish a secondary road unit to encourage adequate standards of technical and administrative methods for this class of road.

The recommendation for a new item of \$8 million annually for the next eight years for work in the Inter-American Highway in Central America was to be made.

A new item also was to be made of \$10,000,000 for construction of access roads to defense installations at federal expense.

Provisions for funds for the interstate system were expected to be modified to provide for apportionment on the same basis as primary funds.

Otherwise the recommendations were expected to be made that the bill follow the House version closely, with the increase of some of the items.

Appropriations Bill Pending

By July 1 the Senate Appropriations Committee had not yet reported the over-all appropriations bill in which are consolidated the appropriations to be made for the fiscal year starting on that day.

On June 29 the President approved H. J. Res. 492, which permits government agencies to continue expenditures at the same rate as during the previous fiscal year.

After the Senate passes the bill, following an undetermined period of debate, differences will have to be adjusted in conference.

Military Building Approved

The military construction bill, signed by the President June 17, authorizes over \$596 million for Army, Navy and Air Force public works at bases both at home and overseas.

Almost \$100 million will be spent to strengthen Army and Air Force defenses in Alaska. Roughly \$130 million will be spent on other bases outside of the U. S., most of them in the Pacific. For military construction in this country, the Army may spend \$44.8 million, the Navy \$135.7 million, and the Air Force \$159 million. Also, the Army was given \$2.3 million for the development of special weapons.

16 of President's Reshifting Plans Effected

• Only Five Rejected by Congress Within 60-Day Limitation

» ALL BUT five of the 21 reorganization plans submitted to Congress by the President on March 13 were approved on May 20. The Reorganization Act of 1949, enacted to establish a means of effecting recommendations of the Hoover Commission, provides that proposals become effective 60 days after being sent to Congress, if not rejected by a constitutional majority of either legislative body.

Thumbnail descriptions of the accepted and rejected plans are as follows:

Department of Justice. Reorganization Plan No. 2 transfers all functions of all other officers of the Department of Justice and all functions of all agencies and employees of such department to the Attorney General.

Departments of the Interior, Commerce, and Labor. Reorganization Plans Nos. 3, 5 and 6 vest all functions of all officers of each department and all functions of all agencies and employees of such department in the Secretary who may delegate the performance of any function. The plan provides for an assistant secretary and an executive assistant secretary for each department.

Federal Trade Commission, Federal Power Commission, Securities and Exchange Commission, and Civil Aeronautics Board. Reorganization Plans Nos. 8, 9, 10 and 13 transfer from each commission to its Chairman the executive and administrative functions of the commission with respect to (1) the appointment and supervision of personnel employed under the commission, (2) the distribution of business among such personnel and administrative units of the commission, and (3) the use and expenditure of funds.

Labor Standards Enforcement. Reorganization Plan No. 14 provides that the Secretary of Labor shall prescribe appropriate standards, regulations and procedures which shall be observed by agencies enforcing labor standards under certain enumerated acts.

Alaska and Virgin Islands Public Works. Reorganization Plan No. 15 transfers to the Secretary of the Interior all functions of the Administrator of General Services which apply to acts providing for the development of useful projects in Alaska and the Virgin Islands.

Education and Health Functions. Reorganization Plan No. 16 transfers to the Federal Security Administrator all functions of the Administrator of General Services which ap-

Other Plans Pending

At press time, the Senate Expenditures Committee had approved Reorganization Plan No. 23 which transfers the prefabricated housing functions of the Reconstruction Finance Corporation to the Housing and Home Finance Agency, and Reorganization Plan No. 26 which would make all subordinate Treasury Department officials subject to the direction of Secretary of the Treasury, with the exception of the Controller of the Currency who remains independent.

The committee made no recommendation on Reorganization Plan No. 24 which would place the Reconstruction Finance Corporation under the supervision of the Department of Commerce. No action was taken on Reorganization Plan No. 25 which would vest all duties of the National Securities Resources Board in its chairman, and Reorganization Plan No. 27 which would create a cabinet-rank Department of Health, Education and Security.

Hearings were held on Reorganization Plan No. 22 which would transfer the Federal National Mortgage Association from RFC to the HHEFA.

Unless rejected, Plans 24 and 25 become effective automatically on July 9, while Plans 26 and 27 become effective July 31. Plans 22 and 23 become effective September 9.

ply to acts providing for educational opportunities for children on federal reservations, defense areas, etc., and the Water Pollution Control Act.

Public Works Advance Planning. Reorganization Plan No. 17 transfers the loan program for the advance planning of non-federal public works from the General Services Administration to the Housing and Home Finance Agency. The program has been administered by the Communities Facilities Service of GSA which has also been transferred.

Business and Space Management Functions. Reorganization Plan No. 18 transfers all functions relative to the acquisition of building space and all functions of operation, maintenance and custody of office buildings owned or leased by the government from their respective agencies to the Administrator of General Services.

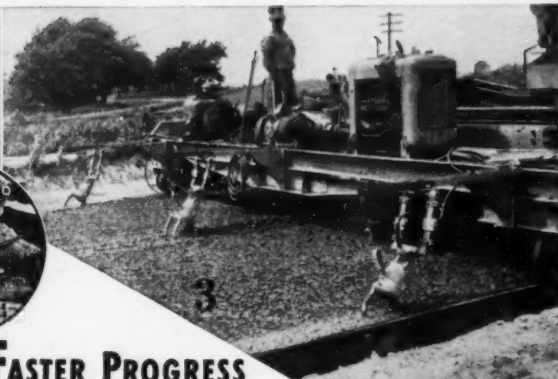
Employees' Compensation Functions. Reorganization Plan No. 19 transfers to the Department of Labor the Bureau of Employees' Compensation and the Employees' Compensation Appeals Board now with the Federal Security Agency.

Statutes at Large. Reorganization Plan No. 20 transfers to the Administrator of General Services from the Department of State its functions having to do with the editing, publication, etc., of the United States Statutes at large and other official documents.

Federal Maritime Board. Reorganization Plan No. 21 provides for the establishment of a Federal Maritime Board and a Federal Maritime Administration within the Department of Commerce. It further provides for an additional office of Under Secretary of Commerce for Transportation and the abolition of the Maritime Commission.

Rejected Plans

Reorganization Plans Nos. 1, 4, 7, 11 and 12 were rejected by the Congress. Nos. 1 and 4 called respectively for the transfer of all functions of the department to the Secretary of the Treasury and the Secretary of Agriculture. Nos. 7 and 11 called respectively for the transfer of all functions of the commission to the chairman of the Interstate Commerce Commission and the chairman of the Federal Communications Commission. Plan No. 12 would have abolished the Office of General Counsel of the National Labor Relations Board.



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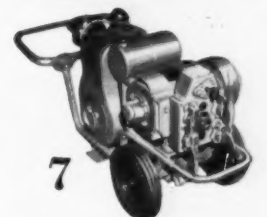
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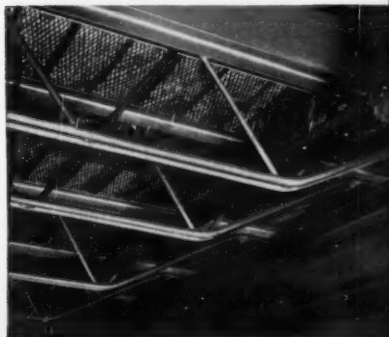
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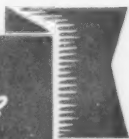
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FOR EVERY PLACE CONCRETE MUST BE POURED

» ONE OF the most disruptive factors in the relationships between construction employers and their workmen is the intervention of government in the field of labor relations.

Because federal, state or local laws and regulations seldom are, or can be, drafted to fit the particular characteristics of construction, their administration generally hampers the industry's operations.

This is contrary to the best interests of the employer, the workman, and the public—even though the intent of the legislation may be to protect their interests.

Such an amount of time and energy is now required to untangle the complexities brought about by the statutes and regulations that men in the industry have little opportunity, and sometimes little inclination, to discuss and negotiate their mutual problems dispassionately.

This situation raises such questions for construction employers, workmen, and their respective representatives as:

1. Should they seek ways to handle their mutual problems so that there will be less governmental intervention in their affairs?
2. Should they seek to amend laws and regulations so that they are compatible with industry operations?
3. Should they seek further to see if there are ways of conducting normal industry relationships under present laws?

Historically, construction employers and their workmen knew each other intimately. As the industry has become more organized, unions have come between the employer and his men. Many contractors have felt that this has made it more difficult for each to understand the other.

Now laws have come between the contractor and his employees, between the contractor and the union, and between the union and its members. Employers and workmen have cause to wonder where this will lead.

A few examples of harassing problems which federal statutes have brought about deserve brief mention.

More than a decade has passed since enactment of the wage and hour law, which is not yet clearly defined with relation to construction operations. During that period the construction contractor has been faced with uncertainty as to its application to his operations. The workman has not known what benefits he might receive from it.

Disruption of Labor Relations By Government Intervention

• Trend of Laws Separating Contractors, Workmen

By James D. Marshall

Assistant Managing Director, The Associated General Contractors of America

To add more problems, a Supreme Court decision on overtime on overtime brought about a long period of disruption of normal bargaining until an amendment to the act could be secured to clarify the matter.

Davis-Bacon Act

The Davis-Bacon and "kick-back" acts were adopted to prevent construction workmen on federal projects from being imposed upon as to wage rates actually paid to them. Today they apply to an increasing number of types of federal-aid projects. The acts are administered under policies of the Secretary of Labor.

He has announced the government's policy of using its influence to increase the income of workmen. Efforts to stretch the Davis-Bacon act to accomplish wage increases cause disruption of normal relationships in the industry, controversies, expense and wasted time.

There is reason to believe that by such actions the government usurps the function and rights of employers, workmen and their representatives, and destroys normal bargaining procedures in the industry.

Wagner-Taft-Hartley Acts

In the field of federal regulation of the relations between employers, unions, or workmen, there is the utmost confusion under the Wagner and Taft-Hartley acts so that the contractor finds no way to turn in order to comply with the acts, to carry on normal bargaining for working conditions and wage rates, and to avoid interruption of the work due to controversies.

The Wagner act, requiring recognition of unions, prescribed a list of unfair practices by employers and established the National Labor Relations Board with enormous discretionary powers to enforce the statute. The Taft-Hartley Act, which seemed to be aimed at some practices in the construction industry, sought to protect rights and privileges of employers

and individual workmen in order to equalize some features of the Wagner act. Most features of the Wagner act, however, were retained.

Now unions and individual employees in the construction industry are seeking protection of their rights under provisions of both acts. The NLRB, with the best of intentions, is finding it almost impossible to apply the language of these acts to the construction industry in a realistic manner.

The great majority of construction employers have tried seriously to comply with these acts. But administrative agencies have found it almost impossible under the laws to develop regulations which comply with the language of the statutes and enable employers, workmen and unions to have their full rights. Almost every employer, whether his men have union affiliation or not, probably could be found in technical violation of some provisions of the act.

Who Benefits?

So many uncertainties and so much confusion has been caused by the attempts to apply various federal, state and local laws to the construction industry, that it is pertinent to enquire what benefits there have been in the intervention of government in the labor relations of the construction industry.

Have employers benefitted? Have workers benefitted? Has the public interest been served?

In order for the public to secure construction at the lowest possible cost, employment conditions and the relationships between employers and workmen need to be stable so that contractors can make their bids without contingencies for circumstances they cannot foresee.

An important decision confronts the employers, workmen and their representatives as to the action they should take with respect to governmental participation in the labor relations of the construction industry.

Disputes Board Operating Successfully

• Review of Jurisdictional Group's Work Since Reestablishment

» THE NATIONAL Joint Board for the Settlement of Jurisdictional Disputes has been operating successfully since it was reestablished on October 1, 1949, according to a study made by The Associated General Contractors of America.

Upon its reestablishment, revised procedures were adopted based upon experiences of the previous board. No changes were made in principles of the agreement which had established the board.

The primary objective of the board has been to set up a procedure which will avoid work stoppages arising out of jurisdictional disputes by accomplishing:

1. The maintenance of operations of each individual construction project free from jurisdictional work stoppages.

2. The encouragement of new agreements between international unions, in lieu of making new decisions of record, which would define the jurisdictional rights of the trades on a national basis.

Relieves Pressure on Employer

To achieve the objective the board has adopted procedural rules and regulations which not only place the responsibility for assigning work on the employer, but require that he do so; provide him with criteria upon which to base his assignments; and afford him the use of the board as a remedy for any work stoppages arising out of such assignments.

This has done much to relieve employers from pressure to stop work and seek a decision, and from accusations of favoritism.

The new procedures likewise place the responsibility on the international unions to have their locals abide by the work assignments of employers. At the same time it provides means of prompt relief from any incorrect assignments.

There has been no decline in the amount of work performed by the board or office of the chairman under the revised procedures. But it is apparent that the number, and serious effects, of jurisdictional disputes has decreased.

The board has held 30 meetings since last October, at least one each week. More than 200 cases have been

handled, an average of more than seven per meeting.

Of these, 137 cases have been settled by job decisions, which set no precedent for any other job. Of the balance, some require further processing by the board, while others will require no decision because of local settlement of the dispute or for other reasons.

Of the job decisions, approximately 35 were rendered on the basis of agreements or decisions of record, previously recognized by the Building and Construction Trades Department, A.F.L., and listed in the "green book." Approximately 100 were decided on the basis of established practices of the industry.

Job Decisions

The job decisions by the board are effective and are enforced only on the particular project involved in the dispute. They do not set any precedent or establish any policy with respect to assignment of work on any other project regardless of the similarity of work involved.

The board does not publish job decisions because each decision is based on the evidence submitted in the particular case by the contending unions and the employer. The conditions may not fit any other job. Even on area practice cases, the board has found in some instances it was necessary to reverse a previous area practice decision.

No employer is obligated to follow the board's findings on any job decision except that made for his job. He should base his assignments on information other than previous job decisions.

The number of decisions by the board is not fully indicative of its value to the industry, since many disputes are settled without the necessity of a job decision.

Initial Steps

Before a case reaches the board proper, several steps may be taken. Generally disputes are referred to the board either by an employer reporting a work stoppage, or by a union protesting the assignment by an employer.

Since the board cannot act formally until a specific assignment of work

has been made, or while a work stoppage exists, the burden is on the board in the majority of cases to see that work is started or resumed, as the case may be. Between meetings, this responsibility is in hands of the chairman.

In hundreds of situations which have come to the attention of the board, the initial efforts by the board or the chairman have prevented prolonged work stoppages or effectuated continuance of operations on projects without any further action by the board becoming necessary.

New Agreements

With respect to the negotiation of new agreements and the making of new national decisions of record, the board has adhered to the policy of endeavoring to effect national settlement of disputes by mutual agreement between international unions, rather than by jurisdictional awards to one of the trades.

Since October 1 two national agreements have been consummated and filed with the board and attested by the chairman. Although they are not yet agreements of record until processed in accordance with provisions of the board agreement, they are by the board's rules binding upon employers in so far as disputes between the trades which are parties to the agreement are concerned.

One agreement is between the United Brotherhood of Carpenters and Joiners of America and the International Hodcarriers, Building and Common Laborers Union covering the stripping and handling of concrete forms.

The other is between the International Brotherhood of Boilermakers, Iron Ship Builders, Welders and Helpers of America and the International Association of Bridge, Structural and Ornamental Iron Workers covering wire mesh on stacks and breeching.

Other international unions are understood to be seeking mutual agreements on other jurisdictional issues which have been the subject of recurring disputes.

Since the reestablishment, there have been no national decisions by hearing panels. Tentative dates have been set for the referral of several issues to panels. Unless the issues can be resolved between the unions by agreement, dates will be set for hearings for the rendering of national decisions.

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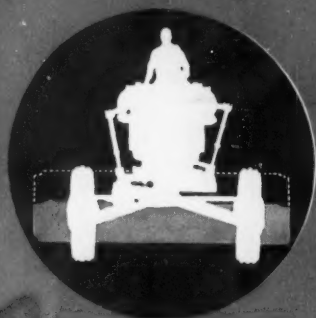


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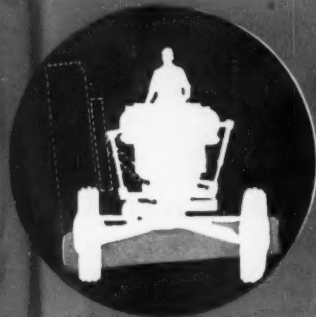
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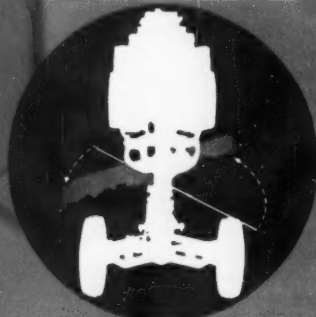
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ADAMS

» ON JUNE 6, 1950, the National Labor Relations Board issued a statement of policy on the building and construction industry intended to answer the plea of both employers and labor for clarification and a procedure for determining whether or not a union has the right to represent employees, and also the announced policy of the general counsel that he would not seek to enforce penalties of the Taft-Hartley law in cases where elections could not be held, and for violations which were only technical violations due to the inability to hold elections.

This statement preceded by only three days the NLRB decision in the *Hewes-Atkinson Case*, which, if followed to the letter, would disrupt practically all bargaining in the industry.

"Enforce Law as Written"

In the statement of policy, the Board said that while it appreciated the efforts of the general counsel to find a solution to the problems which arise in attempting to apply the union shop provisions of the Act to the construction industry, nevertheless the Board felt that it could not join in the general counsel's proposed policy which he announced on December 19, 1949, at the time of the hearing of the *Hewes-Atkinson Case*, and of the industry plea for clarification of procedure. (See January *CONSTRUCTOR*, page 26.)

The Board said that as long as the general counsel "thinks it fairest and best to exercise his exclusive discretion by declining to issue complaints of unfair labor practice if employees are discharged pursuant to an unauthorized union contract, the Board could not, if it would, conduct a hearing or find a violation of law. If and when, however, any such case reaches the Board Members for decision, we will have no choice but to enforce the law as written."

Many Conflicting Decisions

The Board contended that it had no right to limit the procedure required by the act but if it could not be made to work, merely to report these facts to Congress, and yet it has exercised much discretion otherwise limiting the statute, making many conflicting decisions, one time holding construction work covered by the act and at another time holding that it was not covered by the act; at one time contending that the act was a mandate to recognize construction coverage and the next time ignoring such mandate.

NLRB's Construction Policy and Hewes-Atkinson Decision

- Won't Go Along with General Counsel Denham
- Ruling Practically Handcuffs Job Bargaining

On June 9, 1950, six months after the NLRB heard oral arguments in the appeal of the *Hewes-Atkinson Case* from the recommendation of the trial examiner, it issued a decision to the employers which not only dealt with the rights of the litigants but also laid down a precedent in policy which practically handcuffs the industry for bargaining a job agreement until maximum employment has been reached.

Although the Board's decision in this case was under the Wagner Act and originated because of compliance with a closed-shop agreement provision thereunder, the controlling provisions of the Taft-Hartley Act are very similar and would require even an additional election before any form of union security could be engaged in.

Board's Reasoning

The ruling of this Board held that, in spite of the historical practice in the industry of negotiating wages, working conditions and employer-union relations before the men are hired, the Atkinson-Jones Company were engaged in an unfair labor practice for doing so.

The reasons stated by the trial examiner, which were upheld by the Board evolve principally around the opinion that on the date the agreement was entered into the work force of operating engineers employed on the project was not at all representative of

that shortly to be employed and, therefore, the union could not have been the representative of employees in an appropriate unit as required by the act. The Board, however, gives no indication of what the appropriate unit or time for election would be.

The Board has ordered the employer to cease and desist from recognizing the union as the representative of any of its employees for the purpose of dealing with grievances, labor disputes, wages, rate of pay, hours of employment or other conditions of employment unless and until said organization shall have been certified by the NLRB, which certification requires a representation election.

Union Must Be Certified

The Board has also directed the employer to cease giving effect to its agreement, dated August 16, 1947, with this union or to any modification, expansion, supplement or renewal thereof unless and until the union is so certified.

The Board also supports the trial examiner when he ignores all facts with reference to the number of such employees by these employers under supposedly valid agreements on other projects in the same area.

(In the matter of *Guy F. Atkinson Co. and J. A. Jones Co., and Chester R. Hewes*—90 NLRB 27. June 9, 1950.)

Other Decisions Affecting Construction

Reported by A.G.C. Labor Relations Staff

U. S. Circuit Court of Appeals Accepts Jurisdiction Over Construction Work Stoppage Suit for Damages.

U. S. Circuit Court of Appeals finds a work stoppage slowing up construction of a facility for a manufacturer who is engaged in commerce, plus the use of construction material shipped into the state did affect commerce and placed the work stoppage under the Taft-Hartley Act.

The Circuit Court of Appeals also confirmed judgment in favor of the

general contractor for damages resulting from violation of a no strike clause in their agreement under Section 301 of the Taft-Hartley Act.

The case was the *Shirley-Herman Company (A.G.C.) of Buffalo, N.Y., v. Laborers' Local Union*.

In affirming the jury's verdict for \$8,500, the court said:

"The work stoppage resulted in slowing up the installation of sprinkler systems for two plants of the American Radiator & Sanitary Corporation, which is concededly

engaged in interstate commerce. We cannot say that the delay in getting the sprinkler systems may not have obstructed the free flow of radiators into the stream of interstate commerce. Further, the cement, lumber, steel, gasoline, and oil used on the two jobs were shipped in from without the state. Thus commerce was affected by this dispute and the Labor Management Relations Act applies."

On the subject of the union's responsibilities under a "no strike" clause, the court refused to support the defense of the union that the decision would deprive the union of important rights and said:

"The constitutional right of the employees to strike is not impaired by their voluntary agreement to forego use of that weapon. Nor do 'no-strike' clauses such as this defeat the jurisdiction of the National Labor Relations Board, and thus prevent the purposes of the Labor Management Relations Act from being carried out. In fact, the Board itself has said that such clauses as this 'tend to realize the purposes of the Act by encouraging the practice and procedure of collective bargaining rather than resort to the industrial warfare.'"

This is the first case involving the construction industry to be decided under Section 301 (a) of the Taft-Hartley Act by the U. S. Court of Appeals. (*Shirley-Herman v. Hod Carriers, Building and Common Laborers Local No. 210*—18 Labor Cases 65,810 decided May 29, 1950.)

NLRB Declines Jurisdiction in Secondary Boycott Case Involving House Construction.

In considering the appeal of the trial examiner's recommended decision in the Wm. Churches and the Denver Building and Construction Trades Council, the Board held that to take jurisdiction of a secondary boycott charge brought by a general contractor would not effectuate the purposes of the Taft-Hartley Act where the houses being built sold for \$90,000 and the materials used cost \$30,000, 60 per cent of which originated outside the state.

In a strong dissent, Board Member Reynolds criticizes the Board for not taking jurisdiction in this and other cases recently decided involving the building and construction industry. Mr. Reynolds said that right after the enactment of the Taft-Hartley Act the Board started out by holding all

types of construction operations covered, even a house remodeling job.

In its first decision under the Taft-Hartley Act affecting construction, the Board on November 25, 1948, said:

"... the legislative history of the 1947 amendments is replete with evidence that, especially where secondary boycotts were concerned, Congress intended the Board to exercise its plenary power to protect small and relatively local enterprises against the impact of union boycotts aimed at the installation of materials furnished by primary employers, the interstate character of whose business is clear."

Mr. Reynolds, in his dissent, said in part:

"The Board is apparently receding from the position adopted shortly after the amendments to the Act and, although it is not reverting completely to its former view that all enterprises in the building and construction industry are local in character, it is at least limiting the exercise of jurisdiction solely on the ground of the particular commerce factors in each case. I am unaware of any compelling basis for this change."

NLRB Accepts Jurisdiction of Construction Operations of Association Members Using Total of Association Volume as Criteria of Effect on Commerce, and Denies Jurisdiction Over Individual Non-Association Employers.

In this other Buffalo Case, in which the Board issued its decision the same day as the Churches case, NLRB not only asserted jurisdiction as above but indicated that a labor dispute against one member would probably involve all members which would constitute some recognition of the "pool employment" pattern.

This case involved charges of discrimination brought against the association, several of its members and some non-member contractors because of discharges under an alleged closed-shop agreement.

Since 1936, the association has bargained with the unions and signed an agreement on behalf of its membership which at the time of the hearing consisted of 42 general contractors and 80 subcontractors. The Board found that the members of the association did an annual business amounting to \$20,000,000, of which \$2,000,000 represented purchases of materials received from outside the state.

In taking jurisdiction, the Board said:

"Consistent with our well-established policy in representation cases, we find that in passing upon the jurisdictional issue herein, the Association and its members must be regarded as a single enterprise. That the totality of the operations, in volume and character, of all members of the Association has a substantial effect on interstate commerce is apparent. The fact that we might not assert jurisdiction as to each member if before the Board individually or that this proceeding does not directly involve all its members is not here material, because the alleged unfair labor practices are attributed to the Association itself and are the result of the application of a common labor policy by the Association on behalf of its members, including those involved herein."

The Board made no finding on the charges but remanded the case against the association and its members back to the trial examiner with instructions to proceed with the hearing of evidence. It dismissed the charges against the non-member contractors because the amount of commerce involved was not sufficient to warrant their taking jurisdiction. (In the matter of *Carpenter & Skaer, Inc.*, and *General Contracting Employers Association*; and others—90 NLRB No. 78 June 22, 1950)

Wire Mesh Agreement

Chairman John T. Dunlop of the National Joint Board for the Settlement of Jurisdictional Disputes has attested a national agreement regarding jurisdiction over installation of wire mesh on stacks and breeching.

The agreement was reached between the International Association of Bridge, Structural and Ornamental Iron Workers and the International Brotherhood of Boiler Makers, Iron Ship Builders and Helpers.

It was stipulated that "wire mesh when attached or welded directly to the breeching or stacks shall be installed by the boilermakers, and wire mesh when attached or fastened to lugs, clips, bolts, nuts or other attachments (which have already been attached or welded to the breeching or stacks by the boilermakers) shall be installed by the iron workers."

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Mechanical Engineer:
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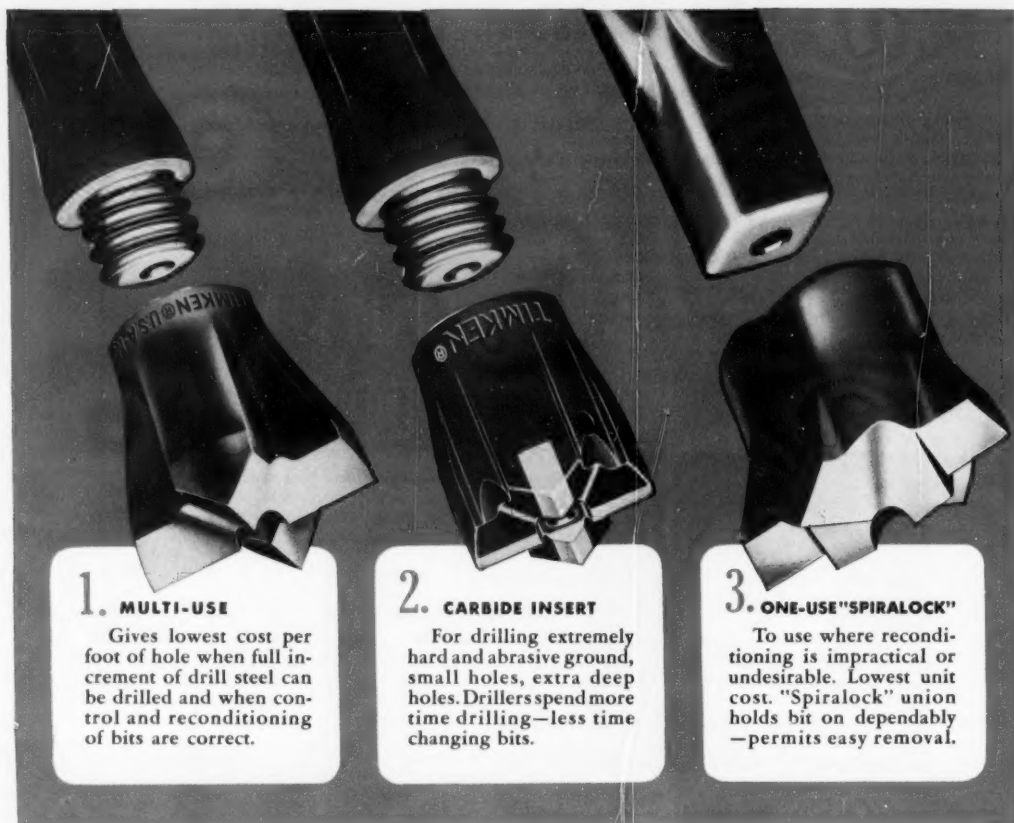
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» GOVERNORS of the 48 states for the first time in history assumed active leadership in a campaign to meet our pressing highway problems. At their annual conference, held late in June at White Sulphur Springs, West Virginia, the heads of state governments adopted by resolution a 184-page report calling for support for nearly every program launched in recent years for (a) the development of adequate highways; (b) the curtailment of traffic accidents; (c) the enactment of uniform motor vehicle laws; and (d) the formulation of sound and equitable highway fiscal policies.

Highways Logging, Survey Shows —Page 24

The resolution urges each governor to seek appropriate legislation in 1951 when 44 of the state assemblies will be in session, and to that end suggests that an individual or board be named immediately in every state for working out a detailed plan for implementing the program.

The economic necessity of immediate capital improvements is shown by highway maintenance costs which represent a heavy outlay in all the states. "The alternate choice of continuing heavy maintenance, rather than making needed capital improvements, holds no promise of costing less in the long run," says the report. In dealing with this phase of the problem, the report places emphasis on the importance of factual studies as a basis for sound development of highway programs.

It points out further that "the overall cost of our highways is nearly twice what it was 10 years ago," and concludes that "highway user taxes and other revenues which contribute to highway maintenance and construction have not kept pace with requirements, and it does not appear that at present rates they will be adequate for future needs."

Want Gas Taxes Raised

"A thorough study of the highway tax structure and fiscal needs and resources" is recommended for every state. "In particular it should consider the equitable distribution of highway costs among the several classes of highway users."

The report suggests gasoline tax increases in some states and also that consideration be given to enacting a

Governors Assume Leadership In Meeting Highway Problems

- Conference Approves Four-Point Road Program
- Each State Will Study Its Own Tax Structure

weight and mileage tax based on gross weights and miles travelled to equalize what it describes as "inequities" in present taxes.

The report concludes with a summary of basic recommendations:

Recommendations Summarized

"First, the states should assume as one of their principal responsibilities the development of a comprehensive highway safety program. . . .

"Second, to protect the nation's \$50 billion investment in public roads, legislation restricting the size and weight of heavy vehicles should be enacted and enforced. . . .

"Third, state taxes levied for highway purposes should be reexamined and potential sources of additional revenue considered. Careful studies should be made to determine whether current levies distribute the highway tax burden equitably on the several classes of highway users."

Death Rate Going Up

With traffic fatalities in the nation 11 per cent higher than last year (first four months) and going up, the decision by the chief executives of the states to take decisive action on traffic safety comes at an opportune time. Their action gives significant support to those measures necessary for the reduction of accidents, and at the same time will block many of the ill-considered and punitive restrictions on highway use which can be expected to result from the current alarming increase in traffic deaths, injuries and congestion.

In their discussions, the governors laid heavy stress on vehicle sizes and weights. Adoption of the A.A.S.H.O. size and weight standards was recommended with "penalties for violations adequate to insure compliance."

Adoption by all states of the Uniform Vehicle Code is recommended. Improved administration, especially in motor vehicle agencies and in the construction and maintenance of local roads is urged. Consolidation of town-

ship or local road districts is recommended.

Acceptance by all states of the standards for driver examinations proposed by the American Association of Motor Vehicle Administrators is recommended by the report. Adequate staffing of police and highway patrols, with an adequate training program for all personnel was another recommendation. A unified state-wide system of traffic courts, with the fee system abolished, was also endorsed.

Informing Public Emphasized

Instruction of the public in the seriousness of the nation's highway needs was urged by Professor W. S. Housel of the University of Michigan, in his talk at the golden anniversary of Mack Trucks, Inc., at Allentown, Pennsylvania.

The country is fitting its size eight foot with a size five shoe, he said. He pointed out that the increase in highway use is far outstripping programs for the repair, replacement and new construction of roads. In the past, roads have been built as the need arose, and usually not until that need became acute, he said. Highway planning must be based on future needs and set up on a long term basis, not allowed to grow in an inadequate, haphazard manner, he warned.

Airport Funds Delay Asked

The U. S. Chamber of Commerce has urged a House committee to defer action on a measure to extend time for appropriating and expending federal aid airport funds until a reevaluation program is completed by the Civil Aeronautics Administration.

Exclusion of aid to local and personal airports, all buildings, land, and maintenance was advocated, in favor of restricting funds to costs of grading, drainage, runway construction, lighting, and navigation aids at airports of interstate importance.

Informing Public About Highway Situation Called Major Problem

- Decision of A.A.S.H.O.-A.G.C. Joint Committee
- Also Studies Overloads, Labor Regulations

» EDUCATING the public to the advancement of highway transportation and what is being done to improve our highway network is a major problem facing highway officials, engineers and general contractors today, was a conclusion reached by the Joint Cooperative Committee of the American Association of State Highway Officials and The Associated General Contractors of America in session at Reno, Nevada, on June 12.

Dissemination of this information, essentially in the field of public relations, was considered a difficult task; and while considerable progress has been made, new methods and improved techniques must be developed, the conferees believed. The committee meeting was held in conjunction with the annual convention of the Western Association of State Highway Officials.

Greater courtesy for highway users forced to travel detours was advocated. Information on the benefits of the new construction and something about the work in progress would help overcome a big annoyance in road building traffic, it was believed.

Unskilled Labor Discussed

Regulations governing the employment of unskilled labor on federal-aid projects were discussed under the head of technical problems. It was generally concluded that there should be no major modification of these regulations at the national level, but that the regulations were sufficiently liberal to permit a satisfactory procedure of employment being worked out at the state level.

Those present decided that if representatives of state highway departments, the Bureau of Public Roads and the contractors study this matter carefully, this satisfactory solution can be secured. Several states objected to the suggestion that the Bureau of Public Roads be asked to modify its regulations so that employment of unskilled labor on federal-aid projects through state employment offices would be unnecessary.

Procedure governing the movement of over-weight and over-size highway

construction equipment from job to job was considered as a timely problem. The argument was advanced by the contractors that the present low cost of highway construction prevailed only because they were permitted to use equipment of large capacity. It was also pointed out that such movements were at infrequent intervals. State highway officials contended that once the contractors were allowed special concessions for moving large sized loads, other special interests would make similar demands.

The Highway Research Board's recent report on overweight permit policies and practices was seen to reveal wide variations from state to state, and seemingly little uniformity from one area of the country to another. The Joint Cooperative Committee, following a study of the report, concluded that much more study would be required before a national policy could be recommended.

Suggestion by some state highway departments that contractors be charged for the re-establishment of grade stakes broken off or misplaced on construction projects was discussed. Following discussion in which it was determined that only a relatively small number of contractors' organizations might be considered careless, it was decided that no policy covering this matter should be initiated.

Specifications Questioned

Contractors expressed disfavor with the specifications being used in some Western states whereby contractors on secondary road projects were paid on a per-hour basis for hauling scrapers and similar equipment. States using such specifications explained that they were employed on relatively few projects and then only in special cases to avoid the cost of extensive engineering work.

Some department representatives held that the saving on engineering work would generally be lost on high priced bids that would probably prevail because of the uncertainty of the job. No final agreement was reached, the general expression being that such

specifications should be considered only for limited, special cases.

That increased highway construction depended entirely upon increased highway financing was considered at the meeting. How to secure additional funds resulted in two conclusions.

The first was that toll roads might be the solution in special cases, but that they were not the final answer. The second conclusion was that the financing problem is so comprehensive and complex that the subject must receive much more attention by all groups interested in highway transportation than it has in the past. Those present decided that numerous special meetings for the consideration of this subject alone might be worth while.

Meeting Well Attended

George T. McCoy, California state highway engineer, presided as chairman over a well attended meeting. State highway officials and engineers present included W. C. Williams and H. G. Smith, Oregon; R. M. Willis and A. M. Nash, California; P. G. Poore, Montana; J. R. Bromley, Wyoming; D. H. Whittenberg, R. W. Griffin, Maurice Housecraft, and W. L. Anderson, Utah; E. C. Simpson and W. A. Buggs, Washington; James Reid, Idaho; J. C. Dingwall, Texas; H. D. Mills, Nevada; and W. C. LeFebvre, Arizona.

Hal H. Hale, executive secretary of A.A.S.H.O. and co-secretary of the Joint Cooperative Committee at the national level, also represented the state highway officials.

S. W. Mayo, acting division engineer, Western headquarters, Bureau of Public Roads, represented that organization.

James D. Marshall, assistant managing director, and A. N. Carter, manager of the highway division, represented the A.G.C. national office.

Contractors present were Karl F. Jacobsen, president of the Portland Chapter of A.G.C., Portland, Oregon; C. V. Isbell, Reno, Nevada; John McLeod, Paramount, California; H. L. Royden, Phoenix, Arizona; and W. C. Tait, San Francisco. Contractors' representatives were: A. H. Harding, Portland Chapter; Melvin Russell, Intermountain Branch; Winfield H. Arata and Frank Callahan, Northern California Chapter; W. D. Shaw, Southern California Chapter; Paul Fredrickson, Mountain Pacific Chapter; J. T. R. McCorkle, Idaho Branch; and Edward L. Pine, Nevada Chapter.

Dual erection methods solve arch construction problem



Erection of arch span, showing falsework and toggle bent. The arch is 93 ft. high, centerline rib to centerline of tie at mid-span, and provides a vertical clearance of 135 ft. at mean high water.

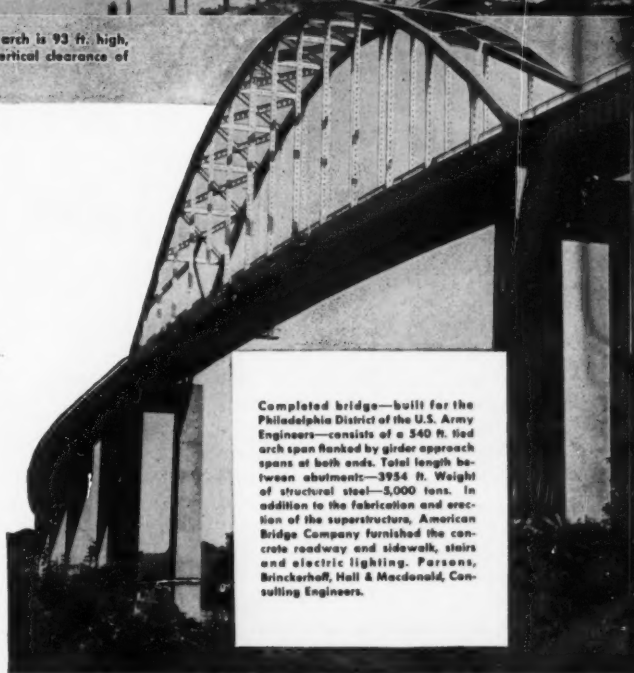
• In erecting the new highway bridge over the Chesapeake and Delaware Canal at Chesapeake City, Md., the problem was to provide a safe channel for navigation during erection. Therefore only one falsework bent could be used. American Bridge engineers solved this difficulty by an unusual combination of erection methods, using a falsework bent at the south side of the canal and a toggle bent over the north pier.

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UNITED STATES STEEL EXPORT COMPANY, NEW YORK



Completed bridge—built for the Philadelphia District of the U.S. Army Engineers—consists of a 540 ft. tied arch span flanked by girder approach spans at both ends. Total length between abutments—3954 ft. Weight of structural steel—5,000 tons. In addition to the fabrication and erection of the superstructure, American Bridge Company furnished the concrete roadway and sidewalk, stairs and electric lighting. Parsons, Brinckerhoff, Hall & Macdonald, Consulting Engineers.



AMERICAN BRIDGE

UNITED STATES STEEL

Davis Construction Company, Hicksville, N. Y., has recently completed the new Veterans Memorial Highway between Commack and Patchogue, L. I. The photographs show part of the Davis earth-moving equipment on this job. Cost of the new through-way, \$1,500,000.



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we get better equipment performance

with Gulf Quality Lubricants and Fuels"

says Charles Davis, General Field Superintendent

"We have used Gulf gasolines, Diesel fuels and lubricants in our entire fleet of equipment for several years," says Mr. Davis, "and always feel safe and sure that we're getting the finest quality and service."

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Project's End Prompts Celebration in Streets

There was dancing in the streets when the new Dupont Circle underpass was opened recently in Washington, D. C. Connecticut Avenue, between N and S streets, had been torn up since March 1948.

On the night of the big opening, owners of shops whose business had been disrupted by the project, sponsored a gala celebration featuring folk dancing and other entertainment under street lights tinted with gold.

There was much advertising and publicity in the capital's newspapers, including features about the general contractor, John McShain, Inc., A.G.C., of Philadelphia, who has other big Washington projects, including the renovation of the White House.

This engineering project, consisting of twin streetcar tunnels, a vehicular underpass and depressed highway, was built with federal aid, the government supplying 50 per cent of an estimated \$5 million, including the work done by the Capital Transit Company.

The project was designed by the Bridge Division of the District of Columbia Highway Department.

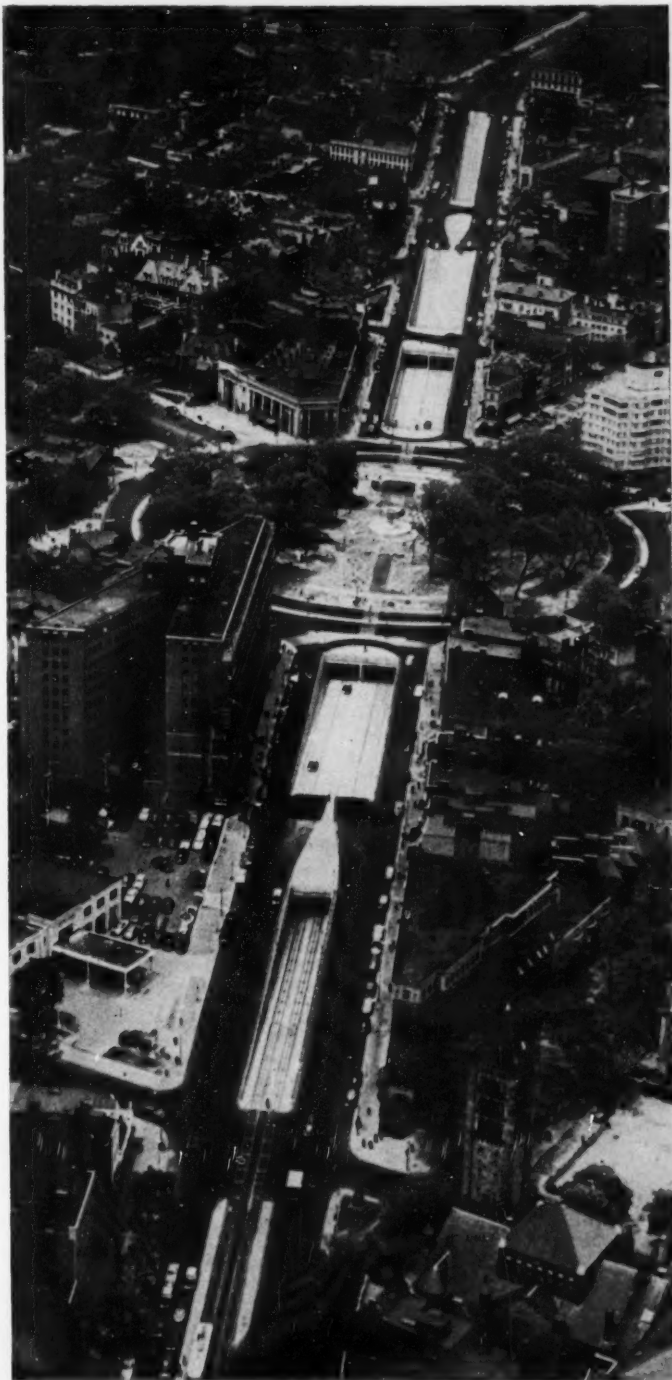
The Bethlehem Steel Company supplied the 3,400,000 pounds of structural steel used. Other statistics of the job include 2,100,000 pounds of reinforcing steel, 25,000 cu.yds. of concrete work, 150,000 cu.yds. of excavation, 41,000 sq.ft. of granite ashlar masonry and 11,000 cu.ft. of granite cut stone.

The vertical clearance in the streetcar tubes is 13'6" and the horizontal 14'. The cleared distance between walls in the two subway stations is 26'8". The west station has five entrances—the east, four.

The vehicular underpass is 579 feet from portal to portal and provides two roadways 22 feet in width. There is a mechanical ventilating system of eight electric fans.

The depressed highway begins at a point 380 feet north of Q Street and ramps downward, passing under the Q Street bridge and continuing without cover to the north portal of the vehicle tunnel. It has two lanes, each 22 feet wide, with a four-foot median. This depressed road is flanked with continuous stone masonry walls.

Construction work required the removal of 36 huge elms from the circle and dismantling and storage of a stone fountain.





Method of constructing plots on a sandy beach with Seaman's Pulvimixer. Note the mobility of the equipment and the small crew required to operate it. (Inset) Typical section of plot constructed with Pulvimixer. Depth of plot is indicated by rule.



Jeep passing over plot two hours after it had been laid down. Within three hours the plot will support a seven-ton truck. Note the appearance of asphalt given by the special material used. A field demonstration is scheduled at Fort Belvoir, Virginia, on August 1.

Navy Has Stabilization Process for Beach Sands

Many lives were lost in World War II when tanks, jeeps and other vehicles churned helplessly in the deep sands of the shore.

So the Navy's Bureau of Yards and Docks has been working on the problem for two years and now offers a relatively inexpensive process which makes sand the fighting man's pal instead of his enemy. With this system of "beach stabilization," the Seabees can make enemy beaches so hard that in a few hours supplies can roll ashore in heavy trucks and troops can move as fast as over paved roads.

The beach stabilization process is a mixing and densification operation performed in a single pass with ordinary road building equipment. The operation can be completed at a forward speed of 12 feet per second. The width depends on the capacity of the equipment.

Actual tests have shown that the resulting pavement can support the weight of a slow-moving jeep without visible deformation within two hours after stabilization. In three hours it supports a loaded truck weighing seven tons, and in tests made after a 24-hour interval, a truck with a gross load of 13½ tons made repeated passes without affecting the surface.

Chemically the process involves low-temperature condensation and polymerization of two liquids through the introduction of a catalytic agent. The rate of hardening can be controlled by the catalyst. The Bureau has pointed out that the hardening period might be cut by using a different catalyst, but the material used was selected because it is the most effective that could be used with available equipment. Work is proceeding on equipment that will permit faster stabilization.

Dr. Hans F. Winterkorn of Princeton University carried on the scientific and laboratory work at Princeton and in his private laboratory, using as a basis a process he had investigated during the war for possible air field use. Development work was done at Port Hueneme, California.

The road building equipment involved can be operated with a very small crew. The material used is plentiful and costs less than 16¢ a pound. At 12 feet per second, several machines working simultaneously can stabilize an entire beach in a matter of minutes.

**"there's a great
piece of
machinery-**

**FOR DIGGING IN
ROCK OR EARTH"**



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SPEEDER**



**L-B-S OWNERS
ARE GREAT
L-B-S FANS**

There's not much room in the contracting business for sentimentality, but in my travels around the country I find that Link-Belt Speeder owners have the same affection for their Link-Belt Speeder Shovel-Cranes that old time contractors felt for their hard working horses . . . and for the same reasons . . . Owners respect and admire faithful and dependable performance.

IT'S THE LINK-BELT SPEEDER LS-85

— The Super ¾ Yd. Shovel-Crane

When Otto Ashbach & Sons of St. Paul shipped their LS-85 to Decorah, Iowa to excavate 10,000 yards of rock, they knew that this shovel would do the job right, and at a profit . . .

Because they had learned years ago that Link-Belt Speeders are dependable and hard working—and have the speed to set good performance records.

After operating Link-Belt Speeders for 11 years, Ashbach superintendent, Clifford Cleveland, said to me: "I think Link-Belt Speeders will out perform any other machine."

I had heard those words many times before from owners, superintendents and operators, and once again I had a good report for the folks back home.

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Articulated Concrete Revetments

• New, Specialized Market on Lower Mississippi

Contractors in 1950 will have the opportunity of bidding on more than twice as much construction of articulated concrete revetments on the Mississippi River as was contracted for in 1949.

This specialized work, until recently performed by government forces, represents a comparatively new market for general contractors, and results partly from conferences held between representatives of The Associated Gen-

eral Contractors of America and officials of the Corps of Engineers on how contractors could become equipped for and bid on this type of work. The first overall contract was awarded in October, 1949. (THE CONSTRUCTOR, November 1949.)

In order to facilitate the change-over from government to contract operations, the government furnishes, on a rental basis, all special equipment and floating plant necessary for sinking operations, with the contractor supplying the usual normal equipment such as trucks, bulldozers, etc. The casting is performed on government casting fields where the government furnishes the necessary forms.

The following article, describing the functions of concrete revetments and the methods used in their construction and placement, was prepared for THE CONSTRUCTOR by the Mississippi River Commission, Corps of Engineers, Vicksburg, Mississippi.

» THE LOWER Mississippi River presents a complex problem of bank stabilization. Wide variations in depths and widths, volume and velocity, direction of flow, slope and water surface, and conditions of bed and banks all contribute to bank erosion and to bar formation. The riverbanks, composed of finely divided clays and silts overlaying easily erodible sands, are inherently unstable.

Passage of the Flood Control Act of December 22, 1944, authorized completion of the bank stabilization program on the Lower Mississippi River and made it possible to prosecute the work in a systematic manner. In the current plan of the Mississippi River Commission, revetment will be the principal structure, because the problem is mainly one of arresting bank recession in concave bends where depths are too great to construct any other known device economically.

A revetment is a structure designed to give direct protection to the riverbank. To be effective, it must be of sufficient length to protect the entire concave bend from the upper to the lowermost points of caving at all stages. It must extend from the top of the bank to the toe of the under-water slope, which may represent a vertical height of as much as 150 feet. It should be flexible for conformance to irregularities of surface, and it must be strong enough to remain intact when subjected to settlement or scour.

In addition, the revetment must be relatively impermeable and continuous



—Photos, Mississippi River Commission, Corps of Engineers

Above: Casting articulated concrete mattress in slotted steel forms is done at strategically located fields.

Below: Completed mattress laid on Mississippi bank, which was graded to desired slope in advance.



HEAVY • RAILROAD

to prevent fine soil particles from leaching through the mattress under current action, and it should be indestructible in air or water.

A revetment consists of two parts: an underwater portion known as the mattress, and bank paving, which extends from the top edge of the mattress to the top of the bank. The mattress, with which this article is concerned, comprises about three-fourths to four-fifths of the entire structure.

Development of Mattresses

Prior to 1893, many types of mattresses made of willows, lumber, and native materials were devised and tested. Of the types developed during this period of experimentation, the framed willow and the willow fascine mattress were found to be effective and were used extensively until about 1930. Because of the scarcity of willows, the short construction season, the slow rate of production, and the greater cost of construction, only a limited amount of these types has been constructed in the past 20 years.

Between 1914 and 1944 five types of mattresses were developed: the monolithic concrete, the articulated concrete, the lapped slab, the compacted asphalt, and the flexible roll-type concrete. Of these, only the articulated concrete mattress has proved to be satisfactory in production, cost, and service.

The articulated concrete mattress originated with experiments made in 1915 by the Third Mississippi River Commission District, presently the Vicksburg District. Until 1931, the mattress and plant remained essentially as designed. In that year, the Memphis District conducted a study which resulted in considerable improvement in design of the mattress and the plant. Additional subsequent improvements have resulted in an articulated concrete mattress superior to any other type of concrete revetment yet designed.

The articulated concrete mattress as originally devised was composed of 25 blocks, each three feet, 11 inches long, $11\frac{1}{2}$ inches wide, and three inches thick, resulting in a "square" 25 feet long and four feet wide, including space allowance for connection with adjoining units.

The units presently in use have the same over-all dimensions; however, they are now composed of 20 blocks, each three feet, $10\frac{1}{2}$ inches long, 14 inches wide, and three inches thick, spaced one inch apart on heavy non-

corrosive reinforcing fabric. The blocks are beveled in such a manner that the effective opening is reduced to $\frac{3}{4}$ inch. The fabric consists of three longitudinal wires which are continuous throughout the length of the unit, and rectangular brackets which furnish the transverse reinforcing. The longitudinal wires are looped at the ends for joining with similar wires in the abutting ends of adjoining units. Provision is made for fastening with the launching cables and adjacent

units in the assembled mattress by extending the ends of the transverse brackets beyond the concrete blocks. Recesses in the ends of the individual blocks facilitate application of twist wires and clips used in connecting the mattress units.

During the period of development of the articulated concrete mattress, casting of the units was performed entirely on floating plant. Since 1940, however, the volume of the work has required that the units be cast at fields



Above: Sinking plant after first launch of mattress. As successive launches are made, plant is drawn from bank along guide rails of mooring barges.

Below: Completed revetment. Subaqueous portion is of articulated concrete, upper bank paved with mixtures of asphalt cement and sand, uncompacted.



strategically located adjacent to the river in the Lower Mississippi Valley. Six casting fields are now in operation at Cates Landing, Tennessee; Caruthersville, Missouri; Richardson Landing, Tennessee; Helena, Arkansas; Greenville, Mississippi; and Vidalia, Louisiana. The capacity of each of these fields is 40 to 100 thousand units.

How Mats Are Cast

The concrete used in casting the articulated concrete mats consists of a mix made up of standard portland cement, with or without air entraining admixture, designed for a compressive strength of 2,000 psi at seven days. When high-early-strength cement is used, the concrete must have a compressive strength in seven days equal to that attained by concrete using portland cement at 28 days.

Steel forms, slotted to hold the reinforcing mesh in place, are used to cast the mattress. The squares are cast in piles, 12 or more squares in each pile. Prior to use, the forms are coated with a mineral oil to facilitate removal after pouring. Two thicknesses of heavy Kraft paper are used as separators between squares.

The concrete is poured into the forms from trucks or pavers and is deposited in the forms in such a manner as to avoid segregation of the aggregates. The concrete is struck flush with the top of the forms, compacted with a vibrator, and finished with the back of a shovel.

As soon as possible following pouring, usually about two hours, the forms are removed from the squares.

Curing is effected by keeping the concrete moist with an impervious membrane curing compound for 10 days.

When they are needed, the mattress units are loaded on flush deck steel barges and towed to the site of revetment construction. At the site, the loaded barges are floated into position at the outboard side of the sinking barge.

The sinking barge is equipped with two small whirly cranes, each of which is capable of transferring 90 mat units per hour from the mat barge to the ways of the sinking barge. On the main deck of the sinking barge, below the ways, a full-length machinery alley contains equipment for paying out the launching cables to which the mat units are to be fastened.

The ways, consisting of double trains of rollers spaced to support the four-foot dimension of the mat unit

when the 25-foot dimension is laid athwart the barge, are constructed on a superdeck which slopes toward the inshore edge of the barge and terminates in a smooth eight-foot radius curve over the gunwale to the water line. The ways are sufficiently large to permit assembly of mattress sections 25 feet long and, in the larger plants, 140 feet wide (parallel to the bank line).

Sinking is begun at the bank line. After the first section is assembled, the launching cables are paid out and the completed section is laid against the bank, above the water line, by extension of retractable cantilever beams, or "fingers". The launching cables are then secured to screw anchors or deadmen in the bank. Assembly is then begun on the second section which is fastened to the first section by twist wires through the loops of the longitudinal reinforcing and by ties to the launching cables.

The first section is then launched by retracting the "fingers". Successive sections are launched as the sinking barge moves away from the bank, guided along the mooring barges. This procedure results in continuous strips 100 to 140 feet wide, depending upon the type of plant used, extending from above the water's edge to beyond the toe of the underwater slope, normally 250 to 400 feet into the river.

When the strip of mattress has been laid along the river bottom, the cables are cut, and the sinking and mooring barges are moved upstream. The next section of mattress is assembled and placed to overlap the preceding downstream strip by at least five feet.

The cables and reinforcing fabric provide the strength for launching and prevent the individual blocks from being moved away by current action. The integrity, and consequently the useful life of the mattress, depends upon the life of the reinforcing fabric. Copper-coated and stainless steel are now used for metal parts.

425 Miles of Revetment

The revetment program on the Lower Mississippi River envisions 425 miles of revetment, 199 miles of which are expected to be complete by July 1, 1950. The size of the program and the requirements for orderly progress demand that quantity production be obtained. The articulated concrete mattress is the only remaining revetment type susceptible to the quantity production necessary for the regular revetment program.

There are presently three articulated concrete mattress sinking plants in operation on the Lower Mississippi River. One of these is designed to place a subaqueous mattress 100 feet wide. The other two are designed to place mattresses 140 feet wide. The combined average performance of the three plants is 140,000 squares (14 million square feet) of mattress per month. During a normal low-water construction season of five months, the three plants are capable of revetting 40 miles of bank with a mattress averaging 350 feet in width.

Because of the high cost involved in the construction of a sinking plant, designed specifically for revetment work, private contractors have not built such plants. Consequently, the three plants now in operation were designed and constructed by the Federal Government. On two occasions in the past, however, plants have been furnished to private contractors for revetment construction under their supervision, although the majority of the revetment work performed thus far has been performed by the Federal Government using hired labor. At the present time, one plant is being operated by a private contractor on a bid basis, the plant being furnished by the Government.

All casting fields are operated on a contract basis.

MORE BY CONTRACT

The score in revetment work by contract for the calendar years 1948, 1949, and the first half of 1950 is as follows:

1948 — Casting, 367,000 squares; sinking, none; riprap paving, 4,500 squares; asphalt paving, 50,000 squares.

1949 — Casting, 584,000 squares; sinking, 36,000 squares articulated concrete mattress, 1,400 squares connecting mat; bank grading, 730,000 cu. yds.; gravel blanket, 8,900 cu. yds.; riprap paving, 16,000 squares; asphalt paving, 94,000 squares.

1950 — Casting, 570,000 squares; sinking, 110,000 squares concrete mattress, 9,000 squares connecting mat; grout joint filling, 170,000 linear feet; gravel blanket, 31,000 cu. yds.; grading, 1,900,000 cu. yds.; riprap paving, 24,000 squares; asphalt paving, 54,000 squares.

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Flooded Winnipeg as seen from the air—one of the worst flood disasters in recent history. (Wide World Photo)



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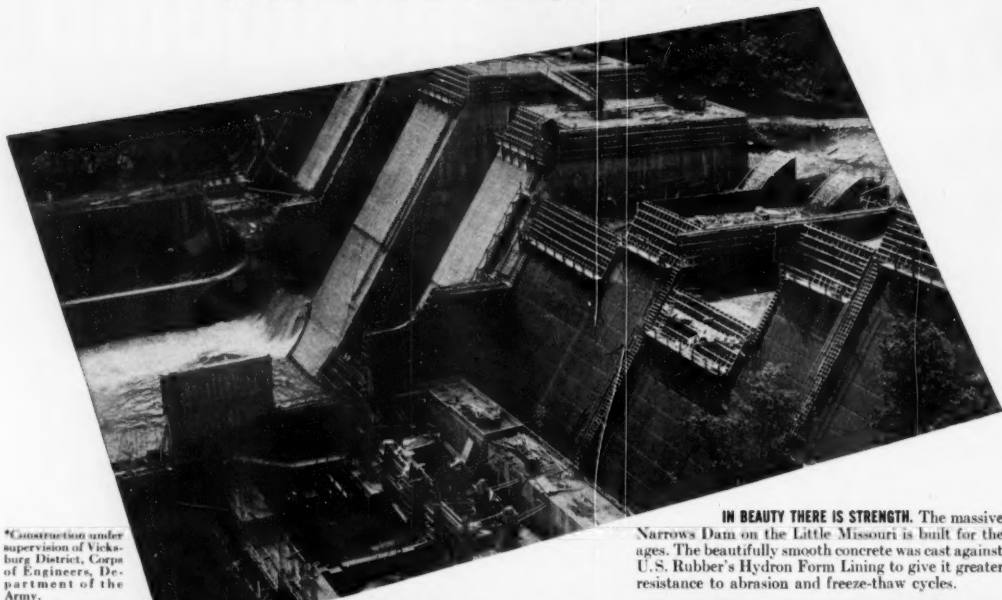
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*Construction under supervision of Vicksburg District, Corps of Engineers, Department of the Army.

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Challenges of Bridge Foundations Many

• Marine Contracting Executive Describes Construction Problems

» CONSTRUCTION of big bridge foundations involves all the challenging problems of a major land and sea campaign, Ralph E. DeSimone, vice president of Merritt-Chapman & Scott Corporation, A.G.C., in charge of marine and heavy construction, told the June meeting of the Nassau County Chapter of the New York State Society of Professional Engineers.

He said that for sheer adventure there is no field of construction to match the "from the bottom up" story of the work that goes into building one of the modern overwater highways. To illustrate his points he described the Delaware Memorial Bridge near Wilmington (June *CONSTRUCTOR*, page 33), the Mystic River Bridge at Boston, and the span over the Mississippi at Memphis.

As a typical case, he cited problems of the East Anchorage Pier for the Delaware River bridge which required more than 50 pieces of floating equipment worth \$2,500,000 to make a continuous underwater pour of concrete for the pier's foundation, a slab of concrete 225 feet long, 99 feet wide and 32 feet deep.

The operation took 7.4 days of round-the-clock work and set a world's record for underwater concreting by tremie method. It required a shuttle system of barges to feed two floating concrete mix plants with some 45,000 tons of sand and gravel, 46,000 barrels of bulk cement and 1,260,000 gallons of fresh water.

Projects Getting Tougher

It could not have been done, he said, without the clockwork coordination ashore and afloat which insured that materials were delivered to the work site in mid-river on absolute schedule. A floating power plant with batteries of floodlights facilitated night operations. A two-way short-wave radio network permitted the job manager and his assistants to keep in constant touch with every piece of floating equipment. He stated:

"Equipment is only part of the challenge, however. As bridges grow longer and larger, the contractor finds that each new project increasingly becomes a tougher problem of logistics.

"The problems of unification of command ashore and afloat are old ones. Long before actual construc-

tion starts, the contractor must carefully integrate his planning so that each part of a complex jigsaw operation falls into place; so that the right personnel and material are on hand each step of the way, where and when needed.

"Because he is first on the job, the contractor must also be prepared to construct from scratch a complete shoreside base of operations. In many cases that means building special rail terminal and pier facilities even before most preliminary work can be started. And, once having started the project, he must be equipped with a headquarters management which, regardless of location, can integrate every phase of the work into one smoothly flowing operation."

He cited particular problems of two of the seven piers of the bridge at Memphis. If normal construction methods had been followed, the swift current would have scoured the muddy river bottom from around the base of the two piers. So the company wove willow mats, 320 feet long by 250 feet wide and 18 inches thick, weighted them with stone, and sank them into position at the pier sites. The caissons were floated into place and sunk through holes cut in the mats, which served to keep the river bottom in place.

He also cited problems of pouring concrete in mid-winter for the pedestals of the Mystic River deep-water piers. To do it, a network of perforated pipes was built up and around all four sides of the pedestal forms, which then were completely draped with heavy tarpaulins. As soon as concreting started, a steam plant went into action aboard a floating derrick pressed into service as a central heating plant. For seven days and seven nights while the concrete was setting, the improvised steam heat system kept it at the right temperature.

Dam Saves Town

The contract for the Heart River dam, 110 miles above Mandan, North Dakota on the Heart River, called for completion by November 22, 1950. Because the dam was finished and turned over to the Bureau of Reclamation in December 1949, the city of

Mandan was saved from heavy damage when the Heart River went on a record-breaking rampage this spring.

C. F. Lytle Company and Green Construction Company of Des Moines, Iowa, both A.G.C., were the contractors who lopped 11 months off the schedule.

The dam is an earth-fill structure 174 feet high and 1,850 feet in length. The reservoir has a storage capacity of 428,000 acre-feet. By 1951, irrigation pumping units will go into operation, bringing approximately 4,000 acres under irrigation, using the water stored in the reservoir during the spring flood season.

Despite the fact that the peak flow at the dam was cut from 20,000 second-feet at 3,500 second-feet, the peak flow at Mandan was 5,300 second-feet higher than the previous high in 1943. This was due to a heavy flow from two tributaries below the dam.

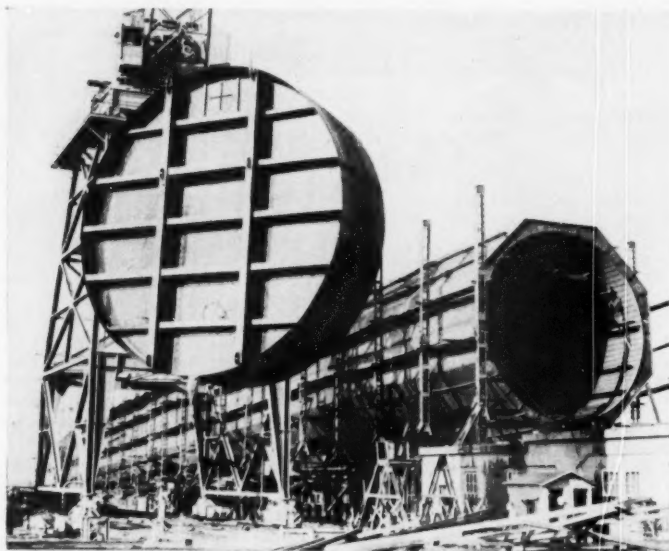
Shasta Dam Dedicated

Shasta Dam in California's Sacramento River, the second tallest dam in the United States, was dedicated on June 17, with Assistant Secretary of the Interior William E. Warne representing President Truman. Secretary Oscar L. Chapman delivered an address on the occasion, marking the 48th anniversary of the signing of the original Reclamation Act of 1902.

The dam, which cost \$144 million, has five 75,000 Kw generators producing over 1¾ billion kilowatt hours annually, making it one of the largest producers of hydroelectric power in the nation. The cost of the dam, power house and switchyard will be returned eventually in power revenues, it is believed.

The dam's reservoir has a capacity of 4,493,000 acre-feet of water. As a key structure in the Bureau of Reclamation's program for development of the Central Valley, the dam will play a part in the plan for providing water to over 2,000,000 acres now inadequately irrigated, safeguard 400,000 acres that suffer during dry years, protect 360,000 acres in the Sacramento-San Joaquin delta from salt water intrusions from San Francisco Bay, and serve more than 3,000,000 acres not now irrigated.

By an extensive distribution system, the water stored in Shasta Dam will benefit lands 500 miles away—a distance equal to that between New York City and Cleveland, Ohio.

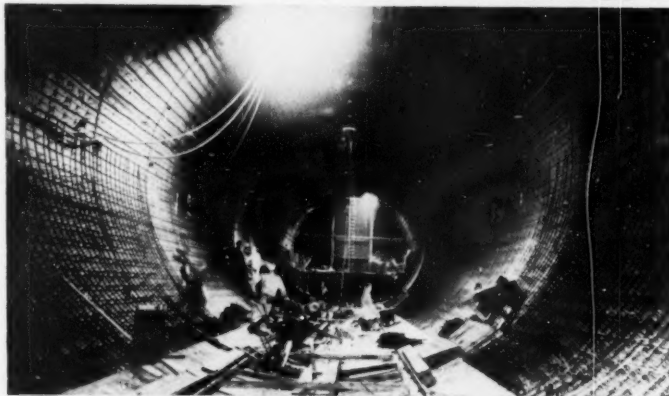


Tunnel Under Houston Ship Channel Opened

Dredging a trench 90 feet deep by 40 feet wide across a ship canal and lowering into it four prefabricated tube sections of steel, each 375 feet long and 35 feet across, constituted the major operations in constructing the Washburn Tunnel under the Houston Ship Channel. This was the third "trench type" tunnel built by Merritt-Chapman & Scott Corporation, New York, A.G.C., the general contractor. There are eight in the United States.

Three phases of the project are pictured here:

(Top) View of one of the octagonal steel sections about to be installed and a giant temporary bulkhead being swung into place to form a water-tight seal. These spans were built on the ways of the Ingalls Shipbuilding Company at Pascagoula, Mississippi, were launched like ships and towed 400 miles to the tunnel site.



(Center) With the sections still afloat at the "shape-up" docks, the next step was building a two-foot thick inner ring of concrete, reinforced with an inner webbing of steel rods. All concrete was poured through temporary openings in the top of the tube section, later sealed by welded plates. The sections were then towed two miles to their future home. In this picture work is being done on the lower section of a tube.



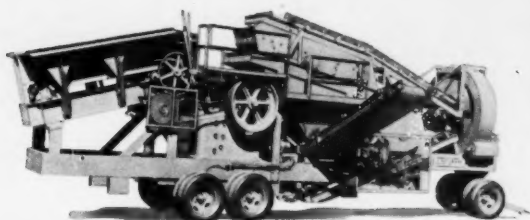
(Bottom) This is the completed tunnel which motorists now see in passing under the channel. Lined with gleaming tile, the tube has vents along the curb which permit the introduction of fresh air pumped into the tunnel through conduits beneath the roadway.

Once the sections were lowered into their exact positions and locked together—an extremely intricate piece of engineering—a final casing of concrete was built about the mammoth steel pipe. Using the tremie method, concrete was chuted down a 12-inch pipe, the bottom of which must constantly be kept beneath the surface of the concrete already poured. In this way, only the upper surface of the growing bed of concrete is ever in contact with the water.

The tunnel, named in honor of Harris County Auditor Harry L. Washburn, is 3,000 feet from portal to portal. Half of this length is under water.

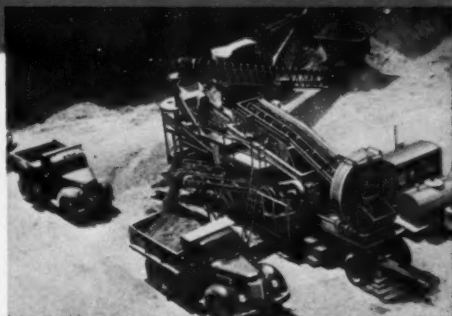
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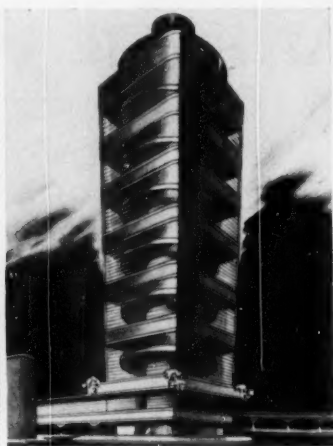
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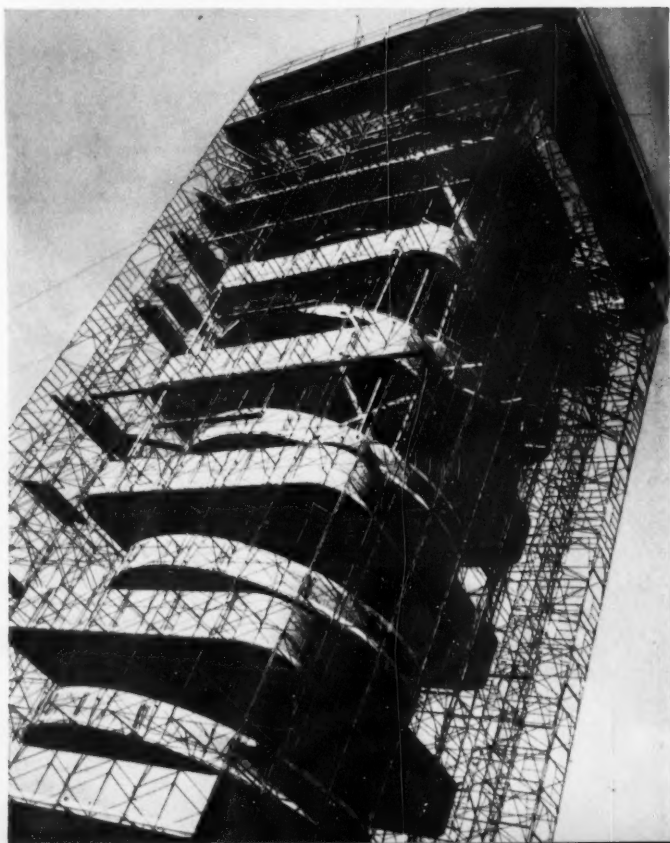
Under construction . . .



. . . and how it will look.

S. C. Johnson Waxes Modern

- Tower Believed Tallest Cantilevered Structure



» FROM BEHIND a protective screen of weather sheeting in Racine, Wisconsin, is emerging a commercial structure resembling a giant circular stairway 156 feet high, with its 15 cantilevered floors encased in glass.

An inspiration of the ultra-designer, Frank Lloyd Wright, this free-standing monument to wax will be S. C. Johnson & Son, Inc.'s research and development tower, ready for work this fall in the development of more and better wax products for home, industry, and agriculture.

Wright said of his creation: "... a free-standing experiment station on behalf of the American housewife" which, together with surrounding buildings "will constitute one of the truly great examples of architecture in the business of modern times."

Said *Fortune* magazine: "Probably the most fanciful structure designed for wax operations since the adoption of the beehive."

The contractor, Wilschek & Nelson, Inc., A.G.C., Racine, reports, probably conservatively, that Mr. Wright's design "requires great accuracy from beginning to end."

Double Walls of Glass

The weight of the tower, 16 million pounds, is supported entirely by the central core or stem, which is anchored 50 feet into the ground.

Since the diameter of the stem was only 13 feet at the bottom, a mirror had to be placed at the side of the hole to guide shovel operators in their work.

The tapering footing stem mushrooms out to 60 feet in diameter at ground level, then becomes a hollow cellular shaft as it rises, housing two shafts for air conditioning exhaust, a supply shaft, an elevator shaft, and a stairway shaft.

Forty-foot-square floors alternate with circular balcony-like levels 38 feet in diameter, all contained in double walls of glass with the exception of narrow masonry bands at main floor levels. Exterior walls will be made of 17 miles of glass tubing, caulked with special Koroseal glazing strip. The inner walls will be of plate glass.

"All Finishing Work"

The project has required 9,000 cubic yards of concrete and 1,000 tons of steel. Floor space totals 98,731 square feet.

B. E. Wilschek, representing the contractor, reports:

"In the trade, we generally speak of two stages in the construction of buildings: Rough framing, which consists of concrete or steel framing, masonry work, roofing, etc.; and finishing work, which consists of plastering, interior architectural woodwork, floor and wall coverings, etc.

"On this project, there are no two stages; it is all finishing work. The architect, Mr. Frank Lloyd Wright, does not use what he calls 'stuck-on finishes.' He obtains beauty in the building by way of lines and proportions of the structural elements.

"The execution of his design requires great accuracy from beginning to end. Horizontal and vertical modules have to be adhered to strictly. Form work is more akin to cabinet work than the usual type of concrete form work. Light concrete members, reinforced with expanded metal welded together, not tied with wires, require 5-6,000 pound pea gravel concrete, well vibrated.

"Concrete floors, troweled monolithically, have to be brought accurately to vertical unit lines so that a half-inch mortar joint will show between the finished floor and the first course of interior brick work.

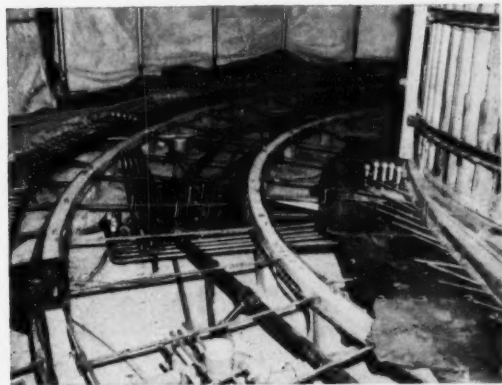
Micrometers and Cabinet Work

"Doors become light pintled panels in the masonry openings; no jambs, trim nor scribed moldings, so that masonry openings must be made perfectly true. Glass meets masonry walls and sills with a minimum amount or no framing at all."

"I recall two remarks made during

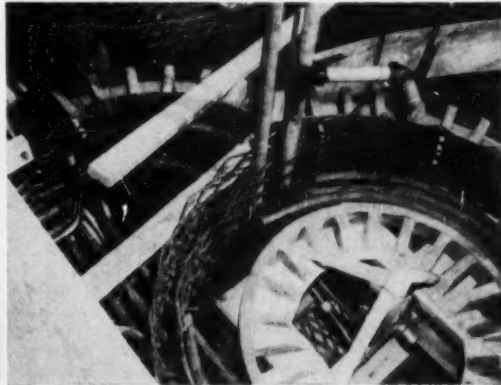


Three separate stages in construction of the central core. At top can be seen reinforcing steel mesh placed before pouring concrete. The vehicle two-by-four wales below are part of special forms. One-quarter inch plywood was the thickest that could be used because of sharp curvatures. Completed section of shaft after forms have been removed is shown at bottom of photo.



At left, above, is shown a plenum chamber with various service pipes leading from the central core to outlets along the perimeter of the floor and to the combination air conditioning and lighting fixtures outlet in the ceiling.

At right, above, is an example of meticulous carpentry work required in fabricating the circular forms for the walls of various risers in the tower's core—elevator, stairway, air shafts, etc.



the construction of the building which better illustrate the nature of the work required than anything else I can say.

"During the early stages of the work, a visitor at the site, who is himself very familiar with construction work, observed some carpenters building concrete forms. As we walked away he said, 'Well, this is the first time I have ever seen carpenters use planes in the building of form work.'

"More recently, an engineer from the company which supplied the Koroseal glazing strip for the glass tube walls, was at the site to determine the design of the Koroseal strip. A sample panel of the two-inch glass tubing had been erected for this purpose. Our assistant superintendent was asked to stand by to lend a hand in the work.

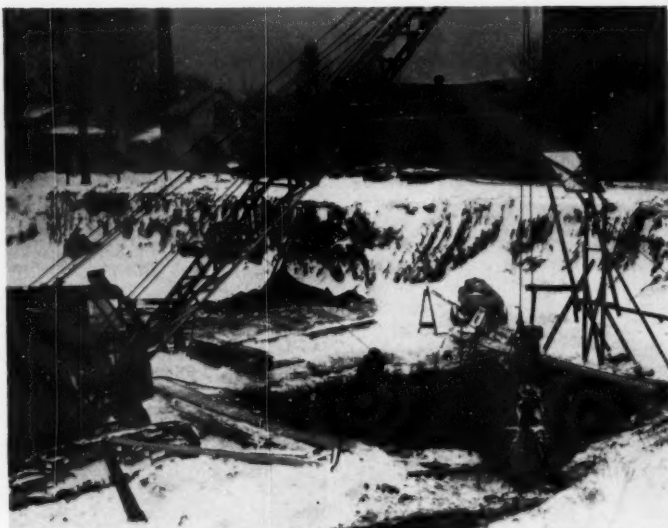
"After silently observing the engineer gauging the glass tubes for slight variations in the diameter, he turned to me and said, 'This is the first job I have ever been on where they take measurements on the building with a micrometer.'

The tower, with its honeycomb of basement tunnels, storage and special equipment rooms, will be ready this fall to house 75 Johnson researchers and their laboratories, as planned by Dr. Vernon Steidle, the company's research and development director.

Said President Herbert F. Johnson: "Our research building will not only provide us with unsurpassed facilities for getting our experimental work done and obtaining new knowledge, but also, because of the beauty of its design, give pleasure to those who work in it and to many thousands who we hope will come to see it."

IBM Publicizes Contractors

Tribute to general contractors, architects and engineers for their contribution to postwar construction is being paid by the International Business Machines Corp. in a series of handsome promotional pieces. Three have already appeared, featuring the Dallas Morning News building (Henry C. Beck, A.G.C., Dallas), Hirschfield Press building, Denver (Platt Rogers, Inc., A.G.C., Denver) and the Crowell-Collier building, New York City (Starrett Brothers and Eken, A.G.C., New York). Picture of the structure is shown prominently as are the firm names of the designer and constructor.



As excavation for the central stem of the Johnson tower was made, a large mirror was used at one side of the hole with face deflected downward to guide the crane operator. Men had to be in the 50-foot-deep pit which was only 13 feet in diameter at the bottom.

B.R.A.B. Plans Fire Resistance Conference

- Topic Suggested by Contractor; Hovde New Chairman

» "FIRE RESISTANCE of Exterior Walls" will be the general subject of the second research correlation conference September 26 of the Building Research Advisory Board, William H. Scheick, executive director, has announced.

Speakers have been invited, and the program for the one-day conference to be held in Washington, D. C., is being arranged by a subcommittee appointed by Executive Committee Chairman C. F. Rassweiler, composed of the following: Carl F. Boester, chairman, and D. E. Parsons, Harry C. Plummer and W. E. Reynolds.

The conference topic was suggested in letters from Andrew J. Eken, president of Starrett Brothers and Eken, A.G.C., New York contractors, and John O. Merrill of Skidmore, Owings and Merrill, architects of Chicago.

The Building Research Advisory Board believes this conference will be of prime significance because it concerns a specific problem of limited scope but of broad interest; because it concerns major buildings; and be-

cause it is an active and vital problem which is suggested to the B.R.A.B. by persons prominent in the building industry and not merely a theoretical problem. Bulletins will be issued on the conference from time to time.

Proceedings of the first research correlation conference on the subject, "Weather and the Building Industry," are available at \$3.50 per copy. Prices on quantity lots will be quoted.

Dr. Frederick L. Hovde, president of Purdue University since 1946, and an outstanding authority on research in the natural sciences, has accepted the chairmanship of the B.R.A.B., filling the vacancy caused by the death of Dr. Frank B. Jewett last fall. Announcement of Dr. Hovde's appointment and acceptance was made by Dr. Detlev W. Bronk, chairman of the National Research Council of which B.R.A.B. is a recently organized component. William Muirhead, secretary-treasurer of The Associated General Contractors of America, and Charles H. Tompkins, A.G.C. member, are members of the board.

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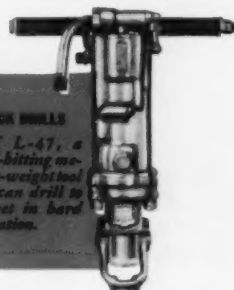
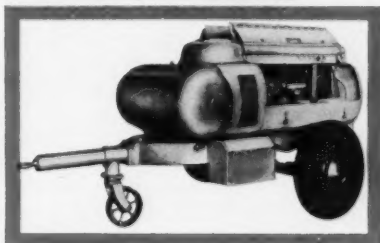
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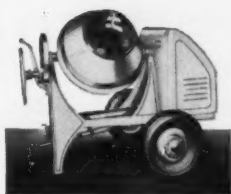
This combination of a CMC 16S End Discharge 4 Wheel Trailer serviced by CMC DUMPOVER Carts backs up any high geared construction program to get the job done—better—faster—at lowest cost. Adding up to profit!

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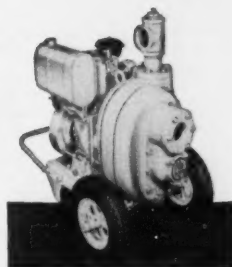
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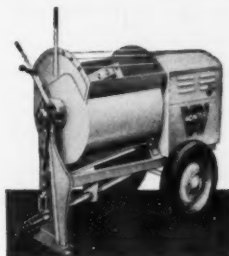
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A complete line from 1½ to 10" Centrifugals with exclusive Dual Prime feature. Also high pressure pumps and 3 and 4" diaphragms. All C.M.C. pumps are famous for dependable service.



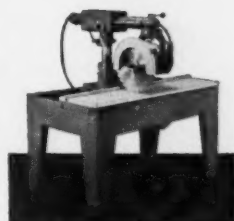
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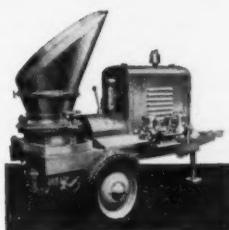
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Radial saws in 3 and 5 H.P. sizes. Complete portable — planing mills. All controls within easy reach. High-speed CMC Kost Kutter table saws. Table tilts to 45°. Combination cross cut and rip blade. Cuts up to 4½".



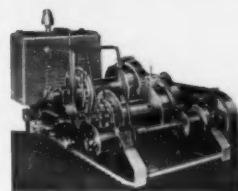
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More than 40 models in 5 drum sizes. General utility double drum with boom swinger is illustrated. The unique Roll-O-Hoist, which works like a ladder on wheels, is also a CMC feature product.



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» GROUND was broken July 5 for what is reported to be the largest construction project on the West Coast since V-J Day. This is the new Statler Hotel and office building at Wilshire Boulevard and Seventh and Figueroa Streets, Los Angeles. Robert E. McKee, General Contractor Inc., A.G.C., of Los Angeles and El Paso, has the contract which calls for \$15 million.

Equipping, decorating and furnishing the hotel, and additional structural costs in connection with the office building will add \$5 million to \$6 million, bringing the total investment to more than \$20 million.

The 1,275-room Los Angeles Statler will be the largest hotel constructed anywhere in the past 20 years.

1,000 Men on Job

One thousand men and a full complement of equipment are on the job and both the hotel and office building will be finished and doing business within two years, according to Arthur F. Douglas, president of the Hotels Statler Company Inc.

"Robert McKee was the low bidder on our project. He has an excellent

\$20 Million L. A. Statler Hotel Under Way

• Robert McKee Has Contract for Big West Coast Project

record for completing the jobs he undertakes on time," said Mr. Douglas.

Representing Statler will be the architectural firm of Holabird & Root & Burgee of Chicago, and associate architect, William Tabler of New York, who designed the hotel and center.

Consolidated Western Steel Corporation and American Bridge Company, both U.S. Steel subsidiaries, were awarded the fabrication and erection of steel on the project. Cost of the steel, included in the general contract, was \$1.5 million. Each firm will fabricate one-half of the steel to be used. Steel erection will start in about three and one half months and be completed in approximately six to eight months.

Subcontract Awards

The American Bridge Company will erect the lower level of the building which includes a 475-car garage and

a large ballroom. The remainder of the height limit of the building into which will go 7,200 tons of steel will be erected by Consolidated Western.

A \$3 million contract for providing the heating, ventilating and plumbing equipment and pipe coverings went to Mehring & Hanson, of Los Angeles, Chicago and Washington, D. C.

The Stetson Electric Company of Los Angeles will do the electrical work for a contract price of \$1.1 million. Elevator Maintenance Ltd. of Los Angeles will install elevators, electric stairways, and dumbwaiters for \$900,000.

The Carrier Corporation has designed a special air conditioning system which will serve all guest rooms and the entire office building. Centrifugal refrigeration machines having a capacity of more than 2,100 tons will be used in the installation.

Culminates Five-Year Plans

Plans for the Los Angeles Statler and the office building have been in process of development for nearly five years.

Distinctive features, announced by Mr. Douglas, include a swimming pool in the patio, an escalator from the motorists' lobby to the main lobby, television in every room, a 475-car underground garage, and outside exposure providing plenty of sunshine and light for all guest rooms.

"A large hotel and office building will fill a long-felt want in Los Angeles," declared Mr. Douglas. "Office space in our area is scarce. We will make available 150,000 square feet of additional space. Our hotel will provide facilities for conventions and group meetings equal to anything in the country."

Indictment Stops Separate Contracts Move

• In Southern State; Specialty Groups Active

» MOST of the national associations of specialty contractors in the construction industry are continuing to seek state, and possibly federal, legislation to require the award of separate contracts for the mechanical work on building and public works.

A set back to this drive has been made recently in the legislature of a Southern state. By a substantial majority the upper house passed a bill for the award of separate contracts for the mechanical work.

Before the lower house acted, a local association of specialty contractors and a local union in the Southwest were indicted by a grand jury for violation of the anti-trust laws.

The indictment had charged that the defendants had conspired through agreement to determine which one of the specialty contractors should submit to the general contractor the low bid for a particular project and that others of the group would submit complementary or dummy bids in ostensible but not actual competition.

Any member of the association which did not conform to the agreement was to be expelled, and the

union agreed not to furnish men to the company expelled or forced to resign, according to the indictment.

Following the indictment, the lower house of the particular state legislature defeated by a substantial majority the proposed legislation.

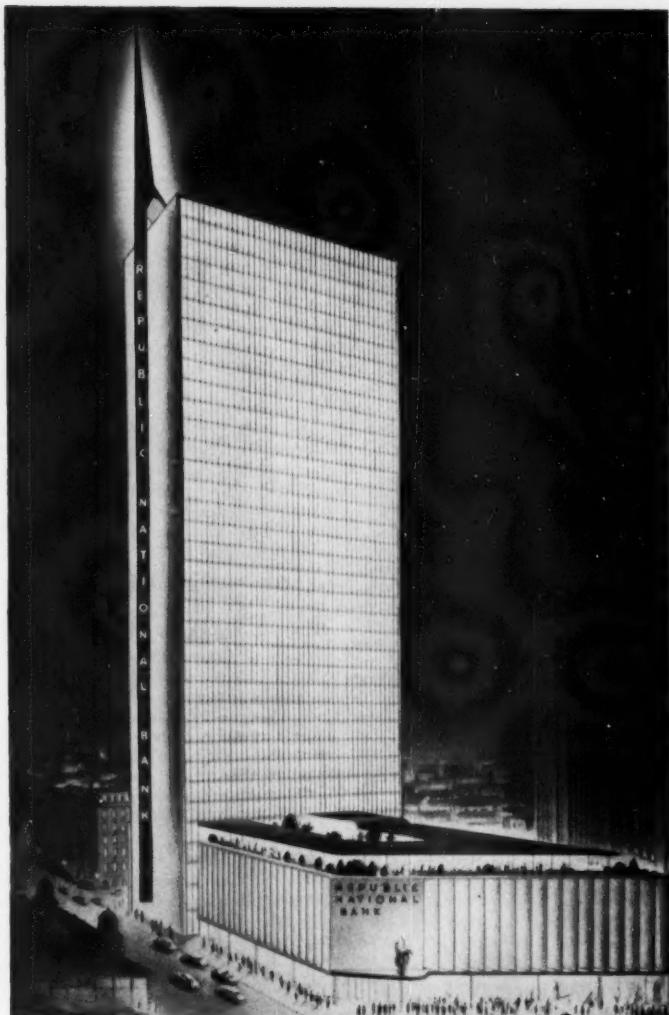
The Associated General Contractors of America previously has questioned whether state or federal legislation will cure the problems with which specialty contractors believe that they are faced.

It has expressed the opinion that it is the responsibility of an industry through its associations to apply all of its collective knowledge and ingenuity to the fair and equitable solution of problems, rather than seek legislation which frequently hampers the efficiency of industry operations.

This month the A.G.C. is expected to publish a booklet outlining the advantages to the owner of the award of one general contract for the construction of a project, or its major interlocking portions. It will be published after the A.G.C. Executive Committee has thoroughly reviewed all of the statements made.

Confer on Building Method

A conference of contractors, architects and engineers was scheduled late last month to discuss technical aspects of the new "raised slab" Youtz-Slick building method which was used successfully on the administration building for Trinity University at San Antonio (February Constructor, page 40). The Texstar Corporation, a licensing agent for the method, called the meeting.



Dallas Bank Plans 36-story Skyscraper

The Republic National Bank of Dallas, Texas, has announced the early construction of a 36-story bank and office building which will be the tallest in the Southwest. With its 160-foot tower, the new structure will soar to a height of 600 feet above the street. There will be four sub-basements with the banking institution occupying the first four floors and the first basement. The base will cover an area of more than an acre.

This will be the third home of the Republic National since its founding

February 14, 1920 with a capital of \$100,000. Today the institution has a capital and surplus of \$27½ million with deposits in excess of \$300 million. It ranks 26th among banks of the United States.

Among the features of the building will be facilities for "motor banking" and an underground garage taking care of 1,400 cars.

Harrison & Abramovitz of New York are the architects. The building will represent an investment in excess of \$15 million.

Military Housing Regulations

The Wherry Act, known as Public Law 498, amends the National Housing Act to encourage the construction of rental housing in areas adjacent to military bases.

Insofar as contractors are concerned, this amendment would appear to substantially improve project development. Once the Military and the Federal Housing Administration have agreed on the number of rental units needed in a particular area, the Military will hire an architect to draw up plans for the proposed projects. Contractors will then bid on the basis of these plans. The U. S. Engineer Corps will advertise the bids for the Army and the Air Force, and the Bureau of Yards and Docks for the Navy.

Before, the bidders themselves were required to submit plans along with their bids. The system now in use is far more efficient. It eliminates delays; it assures the FHA and the Military that they will get the type construction desired, and reduces a formerly complicated method of selecting contractors to a simple bid-price basis; and it gives all contractors the opportunity to bid on the same set of plans.

The value of a project will be the actual replacement cost. Insurable loans may not exceed 90 per cent, and rents may not exceed 6½ per cent of value. So that FHA may predetermine the value of a project, the Labor Department will furnish an estimate of the prevailing wages for the various trades in the project area. When work starts, the Labor Department will fix the minimum wages for the workers involved and if this fixed amount is different from the previous estimated wage, appropriate adjustments will be made in the maximum insurable mortgage, estimated replacement cost, and maximum rent.

Mortgages 30% Over 1949

The boom in real estate is reflected in increases in mortgages recorded all over the country, which ran 30 per cent greater in the first four months of 1950 than for the same period last year, according to the Home Loan Bank Board. The volume in this period of mortgages under \$20,000 reached about \$4,420,000,000, 17 per cent above the previous 1948 peak.



Owner: 1407 Broadway Realty Corp., New York. Architects: Kahn & Jacobs, New York. Structural Engineer: Charles Mayer, C. E., New York. Contractor: J. H. Taylor Construction Co., Inc., New York.

New Skyscraper in Times Square District

Known as "1407 Broadway," this new 42-story office-and-showroom building is the first skyscraper to be built in New York's Times Square District in 19 years.

The structure occupies the entire blockfront on Broadway, between 38th and 39th Streets, and also fronts on 7th Avenue. It is especially planned and designed to serve the women's apparel and textile industries. It is completely air-conditioned, has 1,000,000 sq ft of rentable space, and facilities for unloading as many as nine trailer trucks at one time. The ground floor is occupied by stores, and for the convenience of employees and passersby, a block-long arcade extends through the building from Broadway to 7th Avenue.

The exterior of 1407 Broadway is virtually a series of picture windows, separated between stories by a facing of sea-green brick. The steel framework, weighing close to 10,000 tons, was fabricated and erected by Bethlehem.

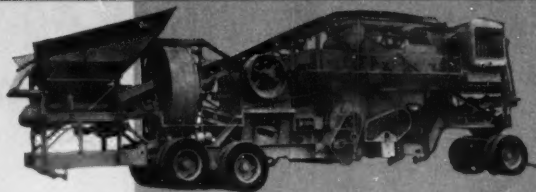
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On the Pacific Coast Bethlehem products are sold by Bethlehem Pacific Coast Steel Corporation. Export Distributor: Bethlehem Steel Export Corporation.

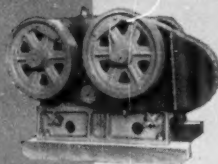


FABRICATED STEEL CONSTRUCTION

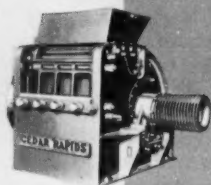
...for lower costs on your Aggregate Producing and Bituminous Mixing Jobs



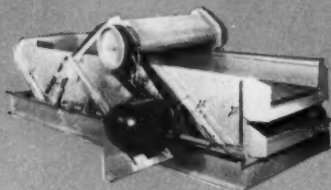
Cedarapids portable crushing and screening plants, the Junior Tandem (shown), the Master Tandem, Super Tandem, Pitmaster, Rock-It, Single Pass and the Hawkeye Series, will cut your costs of producing aggregate and give you more tonnage per hour.



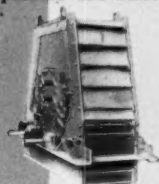
The complete Iowa line of crushers includes twin jaw crushers from 18" x 36" to 12" x 16" and single jaw crushers from 32" x 40" to 6" x 12" for both portable and stationary plants.



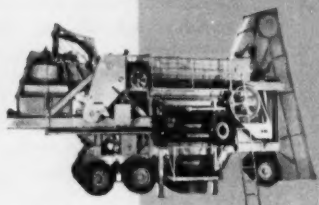
Three sizes of hammermills will meet all your requirements for crushed limestone up to 1 1/4" sizes or agricultural limestone.



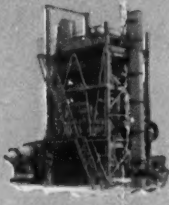
Cedarapids horizontal vibrating screens have everything for faster, better, more profitable screening. Sizes from 3' x 6' to 4' x 14' in single or double decks. Triple deck screens also available.



Cedarapids Double Impeller Impact Breakers (formerly New Holland) produces greater capacities of cubical shaped particles required in so many specifications without excessive power or maintenance cost.



The Model "FA" is our most portable batch-type bituminous mixing plant. 25 cu. ft. capacity. Gasoline, diesel or electric power.



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The Patchmaster is a rugged, low cost, continuous-mix plant for producing bituminous mixes to specifications. Capacity 20 to 30 tons per hour. The Master Mixer will handle still greater volume.

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AND TRAILERS
KUBIT IMPACT BREAKERS
DOUBLE IMPELLER
IMPACT BREAKERS

» FOR OUTSTANDING accomplishment in the field of public relations, The Associated General Contractors of Missouri received the A.G.C. constructionizing award at the thirty-first annual convention of the national organization in San Francisco last March. The Constructors Association of Western Pennsylvania was the runner-up. A construction manual developed by the Cincinnati Chapter A.G.C. received honorable mention.

The theme of the winner's campaign was to sell the contract method of

Minnesota Highway Program

Page 96

highway construction to the citizens of the "Show Me" state. (THE CONSTRUCTOR, November 1949) The campaign was considered so successful in 1949 that the branch increased the appropriation in 1950.

The program was inaugurated by the A.G.C. of Missouri to meet a situation in the state which arose because it definitely had inadequate funds for highway construction, and many of the state officials, seeking to increase these highway funds, had in mind the day labor method of construction for the increased highway program they sought to advance. To combat this tendency and to establish the superiority of the contract method, the A.G.C. of Missouri started a program of paid advertising and publicity in the form of news articles in the rural press of Missouri.

Advertisements were three to four columns wide and nine and a half to 10 inches in depth. This space, sufficiently large to carry an impressive message, appeared in 83 local newspapers in 75 counties.

The insertion of the paid ad invariably resulted in the chapter's being given space on page one in which to tell its story editorially. Such news stories told of a local project which would be of immediate benefit to the community. They mentioned local people or people who were well known locally in road construction.

It was brought out in the article that competition between contractors bidding on the job had reduced the cost of the improvement. The people were reminded that the cost of the project was many times larger than the local contribution to the state highway fund. Naturally the value of the new road to the community was stressed.

Believing in the journalistic truism

A.G.C. of Missouri's Program Resulted in Many Benefits

- Techniques of Constructionizing Award Winner
- Salient Points to Be Noted in Publicity

that "names make news," the job was personalized by naming the contracting firm or contractor, telling something of his long experience and skillful completion of many similar jobs. The job superintendent was mentioned by name as were the division engineer and the project engineer of the highway department.

The impression these down-to-earth home town news stories sought to create was that local highway improvements added wealth to the community and contributed to the people's convenience and well being, the inevitable conclusion being that much more could be done along these lines if more funds were available to the state highway department.

The unquestioned benefits which are a direct result of this public relations program are enumerated in the official report of the chapter. These benefits include: 1. The good will of the highway commission and the highway department was gained for the A.G.C.

2. Interest in the question of providing additional funds for the highway department was increased to such an extent that other local newspapers that had not been patronized in the paid campaign wrote similar articles.

3. The opinion that roads are built to a higher standard and more economically by the contract system than by day labor was thoroughly imprinted in the minds of the readers.

4. The members of the A.G.C. realized that the association was doing some very concrete work for their individual benefit, thus strengthening the organization.

5. This campaign attracted the attention of the governor of Missouri, who made public acknowledgment of the value of the campaign in helping him secure more funds for the highway program.

6. There are very strong indications that this program has helped (a) the people of the state, (b) the state highway department, (c) the contractors.

Concurrently with the rural newspaper campaign, the association carried regular advertisements in a state-

wide publication of the Municipal League, a state-wide publication of the professional engineers' society, and the monthly publication of one very large and influential engineers' club.

Salient Publicity Points

For the help and guidance of other A.G.C. organizations that are prompted to follow the successful example of the Missouri A.G.C., there are enumerated here the salient points that should be woven into the publicity story:

1. Name and home address of construction company and names of its officers.
2. Superintendent of project and location of construction office.
3. Name of project engineer for owner.
4. Name of safety engineer and statistics of accidents. Safety features should be stressed.
5. Name of paymaster and officer authorized to approve bills for contractor.
6. Apology for any inconvenience to public. Describe methods for handling traffic, detours, etc.
7. Statistics of job—costs, quantities, etc.
8. If there is to be an opening or dedication ceremony, who will participate.
9. Something about the usefulness or justification of the job.
10. Statement about membership in A.G.C. when possible.
11. Bring out importance of competitive bidding.
12. Location of job—(county, town, route number, connecting points).
13. If it is a public job, what it means in terms of returned tax money.
14. Some complimentary statements about owners when possible.
15. Some complimentary remarks about work done by contractor.

Pennsylvania Program

In the belief that knowing what goes on "behind the detour sign" will do much to eliminate the motorist's ill feeling against contractor and awarding body, the Constructors Association of Western Pennsylvania, by means of progress pictures, news stories and other publicity, endeavored to explain why these annoying signs are displayed. The campaign was well received.

Architecture Declared Need in Civil Engineering Curricula

- Contractor's Opinion Voiced at Education Meeting
- Cannot Divorce from Construction, Teufel Says

» ALL CIVIL engineering students should have training in architectural design and details.

This was emphasized in an address to the fifty-eighth annual meeting of the American Society for Engineering Education held at Seattle, Washington, last month by George I. Teufel, of the George E. Teufel Co., A.G.C., of Seattle.

Mr. Teufel stated that he spoke as an industrial building contractor, and that his point of view undoubtedly would be different from other contractors interested in different phases of construction. He stated in part:

"As I see it, the one glaring omission in this study of curricula, and one that to me indicates an unfortunate trend in the thinking of engineers as a group, is in the field of architecture.

"Architecture is so closely related to construction and civil engineering that in practice it is utterly impossible to divorce the two. Yet in my experience I have found that the engineering educator gives students absolutely no training in this vital subject.

"Engineering students are given courses to determine whether a beam is strong enough to be safe. They are taught to examine minutely all of the structural elements of a building, yet they are completely ignorant of how to assemble them to make a harmonious, workable structure that fills a need for the community.

Why Constructed

"Let us consider why a building is constructed. It is constructed by an owner for a specific purpose, which may be selling liquor by the drink, manufacturing automobiles, or storing food. If the owner could accomplish his purpose without spending money he would do so, but he must have shelter. The result is that the owner decides to build and calls in a man trained in giving a product that will meet his needs.

"The owner is not interested in what holds his building up, only that it stays up, is cheap and fulfills his needs. The architect concentrates on giving his client what he wants, and is

thoroughly conversant with the niceties and details which make up the finished structure.

"When the architect completes his work he hands his plans to the engineer and says, 'Do something to hold this together.' The engineer then does his minor role, takes his small fee and profusely thanks the architect for his patronage.

"Then when in communion with his fellow engineers he discourses on bootstrap ways and means of improving his economic and professional status in the community. He overlooks a primary reason for his present status, namely: he has been thoroughly trained in the secondary aspects of the building business and is totally untrained in the primary and remunerative aspect of the business, to wit, designing a building to meet a specific purpose.

Basic Desires

"The architect is dealing with people's basic desires, while the engineer is employed in the secondary role of providing the rough frame only.

"Some engineers overcome this handicap in their basic training and rise to compete successfully with architects. This is not because of their engineer training, but by their own hard work and intelligence they overcome the basic handicap, lack of any architectural training.

"This lack of training is especially brought home to the young engineering graduate when he starts to work in the building construction business. He is shocked to find that he cannot even read an architectural drawing. He is thoroughly confused and bewildered by what he does not know, and incidentally, thinks he should know. In some instances this gives the young graduate engineer a feeling of inferiority.

"As a result a man with less formal education than the college graduate, but with more practical experience, such as a man who has completed a course of apprenticeship in the building trades, sometimes surpasses the college graduate in the construction

business. As the young engineer gets experience on different jobs, he gradually accumulates sufficient knowledge to enable him to do his job. This knowledge is acquired the really hard way.

"By this time, no doubt, you have gathered that I think engineering students should be taught some architecture. This I feel very strongly. It is especially important to the young engineer entering construction, and would be equally important to an engineer in any branch of civil engineering. I believe that engineering students should be taught enough basic architecture to enable them to see the relationship between engineering and architecture. Thus in later life they would be better prepared to take the necessary steps to improve their economic and professional position, an essential to the future of the engineering profession."

Construction Credit Denied

Many states do not give credit for experience gained in construction employment in civil engineering registration.

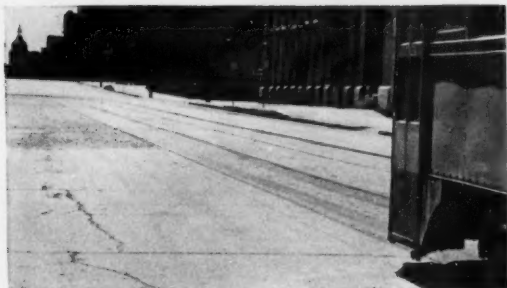
The dangers of this were pointed out at the annual meeting of the American Society for Engineering Education by C. H. Oglesby, associate professor of engineering at Stanford University. He stated in part:

"It would be wrong to pass by the subject of civil engineering registration without pointing out a problem of great concern to all those interested in the construction industry, and of particular importance to recent and coming graduates who are or will be working for contractors. . . .

"A recent digest of registration practices showed that in 33 states contracting or construction supervision was not acceptable toward registration, and that in 20 others the question had not been considered at all. In no state covered by the survey had such experience been accepted.

"In the San Francisco Bay area this issue was raised with The Associated General Contractors of America about a year ago. The Northern California Chapter has had a committee, of which the speaker is a member, studying the problem for most of that time.

"The problem is to be considered by the newly-formed local cooperative committee of the American Society of Civil Engineers and the A.G.C."



Ten Years Ago...

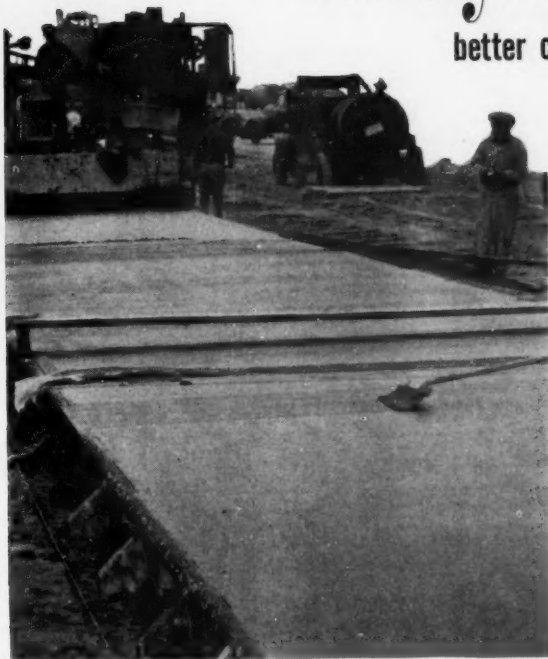
in August, 1939, this concrete test paving was laid in Second Avenue North, Minneapolis. The badly scaled section of roadway in the background was made with regular portland cement. The foreground section, laid at the same time, was made with Atlas Duraplastic—the first commercial use of the air-entraining portland cement originated and developed by Universal Atlas.

Both sections, subjected to the severity of ten Minneapolis winters and to heavy applications of de-icing salts, are shown just as they appeared in July, 1949—convincing proof of the characteristic durability of Duraplastic concrete, of its high resistance to freezing-thawing weather and the scaling action of de-icing salts. Longitudinal structural crack shows some ravelling. Note perfect transverse joint.



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Note how closely finishers work behind the mixer on this Duraplastic paving job. Route 25, Section 32A, New Jersey. Designed by New Jersey Highway Commission. Contractor: Robert W. Cleveland & Co., East Orange, N. J.

Proof that Duraplastic makes better, more durable concrete at *no extra cost* lies in the increasing number of architects, engineers, contractors, dealers and ready-mix operators who buy and specify it for all types of concrete work.

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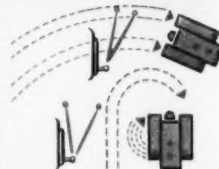
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» **PLACING** the overall responsibility for building construction upon the general contractor was strongly advocated by John A. Volpe, past president of the A.G.C. of Massachusetts and head of the Volpe Construction Company of Boston, in addressing the architectural students at the Massachusetts Institute of Technology recently.

Making separate contracts for heating, plumbing, electrical and other mechanical work tends to decrease efficiency and eliminates to a great extent the central management provided by the general contractor, he charged.

In refuting the claim made by some owners that separate bids saved money, Mr. Volpe cited the case of a \$600,000 hospital building erected by his firm in which a separate contract was let for heating and plumbing. The subcontractor assumed no responsibility toward the general contractor, and in spite of repeated requests, refused to coordinate his work with that of the general plan.

Held Up Work, Raised Costs

He caused many delays such as holding up the pouring of concrete slabs when the other contractors were ready, and preventing the installation of interior partitions which worked a hardship with the general contractor's masonry crews.

"I am firmly convinced that this project took three months longer to complete and added approximately \$10,000 to our costs as a result of the poor performance of this subcontractor who was under separate contract and felt no obligation to the general contractor. There are numerous other instances where the same situation has occurred," said Mr. Volpe.

Closely tied to the problem of separate bids is a requirement in the statutes of the Commonwealth of Massachusetts which provides that a general contractor shall in his proposal for public work give the names and amounts of the subcontractors he proposed to use for various portions of the work as outlined by the architect. This is the only state in the nation where such a law exists, the speaker pointed out.

The law tends to increase the cost of construction, and in general has caused much difficulty on many projects, Mr. Volpe asserted. Insufficient time for the proper analysis of sub-bids and inadequacies in plans and specifications on which the general contractor must base his estimate of

costs are among his objections to the so-called Chapter 480 Statute.

Mr. Volpe made a plea for the general improvement of specifications. He was particularly critical of those carrying such qualifying words as "Approved by," "To the satisfaction of" and "Acceptable to." This final approval by architect or engineer makes it necessary that the contractor increase his estimates because he does not know until he has performed the operation just what he has to do to make it acceptable or satisfactory.

He criticized those architectural firms which ignored or weakened by qualifications the General Conditions promulgated by The American Institute of Architects and approved and endorsed by The Associated General Contractors of America. He expressed his bewilderment why the standard documents of A.I.A. were not more universally used.

Too rapid expansion by some architectural firms is responsible for delays in making additions of competent personnel and the consequent lag in the receipt of details and other information required for the orderly prosecution of the work of the general contractor. "The checking of shop drawings should not involve a three to four week time element, particularly in items such as structural steel, reinforcing steel, and metal doors and frames which are essential in the early stages of the average project," the speaker said.

Recommends Field Work

The Boston contractor placed emphasis on the value of field work for architects and recommended from one to two years' experience with a contractor's organization after graduation. This would acquaint the young architect with the problems of the builder and enhance his professional career.

The necessity for the architect to represent equitably both the owner and the contractor was stressed by the speaker. Sometimes difficult situations arise in which the architect, being paid by the owner, is inclined to favor the owner in cases where the general con-

tractor deserved and merited favorable consideration. Unduly penalizing the builder for something that was forgotten on the plans or in the specifications can result from such favoritism, he held.

The day has passed, Mr. Volpe believes, when the architect's word was law and the contractor was forbidden to question his decisions. In the last 10 or 15 years, much more friendly relations have developed between the builder and the designer. In recent years, enlightened young men entering both fields have profited from free exchange of ideas. The relationship today is one of friendship and mutual respect.

Must Know Cost Trends

The architectural students were told that to be successful, men in their profession should keep abreast of the change in cost trends. The architect's prime function is to prepare adequate plans and specifications from which the contractor can produce the structure desired by the owner within the funds available. Mr. Volpe said that the words "within the funds available" should be italicized since much time and money is wasted because some architects prepare plans for a building whose cost is far above what the client can afford.

The establishment and carrying out of fair and equitable bidding and awarding procedures is conducive to better relations between architect and contractor, he pointed out.

In closing, Mr. Volpe said, "Let us by our every act and deed try at all times by honest effort to promote the welfare of our industry to the end that it will be accorded the recognition it deserves. We must work together to produce greater efficiency in every phase of architecture and building so that jointly we may provide better structures for better living at reduced costs."

Following the address, the M.I.T. students held a question-and-answer session with Mr. Volpe which lasted well over an hour.

M.I.T. Architectural Students Hear About Building Problems

- Volpe Cites Costly Delays by Separate Contract
- Relations of Contractors, Architects Discussed



N. C. Students Visit D. C.

The senior class of North Carolina State's civil engineering school spent four days last spring in Washington, D.C., visiting big construction projects and government laboratories as part of the school's 1950 civil engineering inspection trip.

Accompanied by C. R. Bramer, professor of civil engineering, H. E. Grisct and J. H. Appleton, associate professors of civil engineering (shown at left with a group of students), the 85 young men spent a day en route to Washington at the Buggs Island dam project in Virginia.

The national office of The Associated General Contractors of America arranged one day's tour in Washington, including the new Dupont Circle underpass, the Whitehurst elevated freeway, the 14th Street bridge, General Accounting Office building, and the National Institute of Health, Bethesda, Maryland. A luncheon was

(Continued on page 87)

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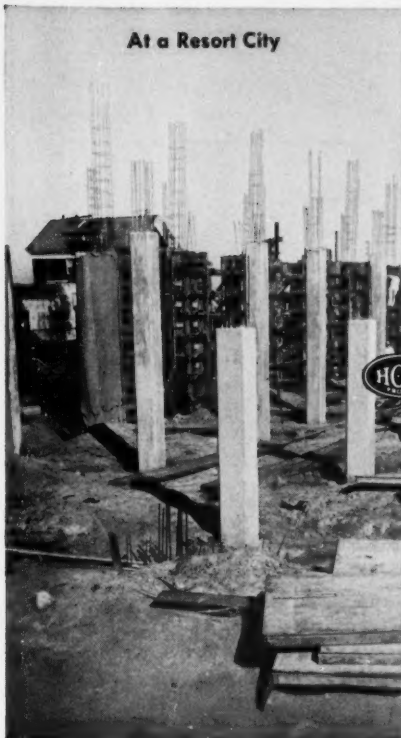
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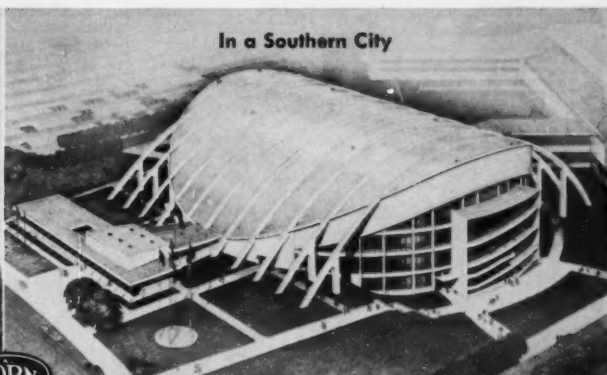
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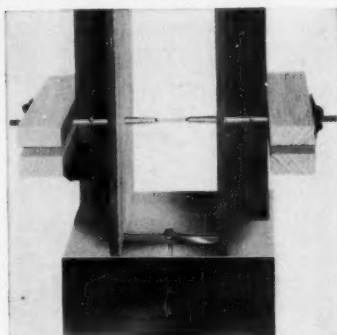
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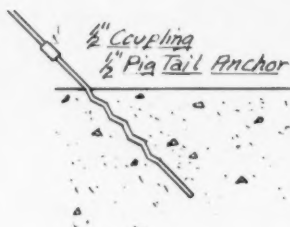
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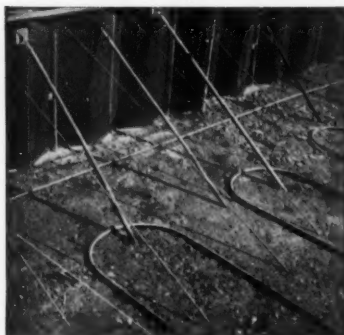
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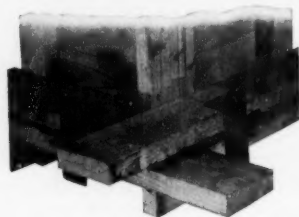
Williams Clamps showing nail in stud spacing—waler support—and form aligner.



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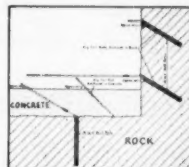


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EDUCATION

(Continued from page 84)
held at the National Airport.

Other activities of the class included tours of the Bureau of Public Roads research laboratory, materials testing laboratory, U. S. Bureau of National Standards, and the District of Columbia's water and sewage treatment plants.

Professor Griset is in charge of the relatively new curriculum at North Carolina State College which leads to the degree of Bachelor of Science in Construction. This program, started last September, is the result of a drive by the Carolinas Branch, A.G.C., to establish at \$100,000 endowment fund for construction engineering.

The Carolina Branch and the A.G.C. nationally cooperated in establishing requirements of the course and other details of the work. (July 1949 CONSTRUCTOR.)

A.S.C.E. Chapter Hears Couse

Better construction, lower costs to the public, greater earnings for the contractor and greater satisfaction for the designer are the end results obtained through close cooperation of all segments of the construction industry, Walter L. Couse, president of The Associated General Contractors of America, told the North Central Conference of A.S.C.E. student chapters May 12 in the University of Michigan's Student Union at Ann Arbor, Michigan.

Civil engineering students, soon to become employees of architects, consulting engineers, contractors, or manufacturing concerns, may profit through the closer relationship of contractors with architects and contractors with engineers, he declared, under A.G.C. leadership.

Pointing out that the A.G.C. was the recognized representative of the construction industry in contacts with governmental agencies, labor and the public at large, Mr. Couse described at length the work of the association and its remarkable growth in the past decade. He drew attention to the fact that membership had come to mean skill, responsibility and integrity, and the hallmark of a responsible business man conducting his affairs in a straightforward and honest manner.

Mr. Couse touched upon the outstanding success of the A.G.C.'s various committees operating jointly with such organizations as the American



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Institute of Architects, American Society of Civil Engineers, American Association of State Highway Officials, National Association of State Aviation Officials, Construction Industry Manufacturers Association, Associated Equipment Distributors, and the National Joint Board for the Settlement of Jurisdictional Disputes in which the A.G.C. cooperates with the A.F. of L. and several specialty contractor organizations.

The Detroit contractor told the student engineers what the association was doing to demonstrate the superiority of the contract method and to advance the single contract in building construction over the separate contract method. He announced that the A.G.C. was assuming an active part in plans for mobilization of the industry in the event of an emergency; and while he said he was unable to disclose what recommendations had been made, he believed that a most effective distribution of effort had been worked out due to this collaboration of contractors, architects and engineers.

Modular Coordination Work

The American Institute of Architects has appointed William Demarest, Jr., of New York City, as secretary for modular coordination in its Department of Education and Research in Washington.

He will promote the development of modular standards and more acceptance and adoption of the principles of modular coordination through contacts with architects, schools of architecture, builders, manufacturers of building materials, and the Housing and Home Finance Agency.

The plan is in line with a promotion program drawn up by the joint committee of the A.I.A. and the Producers' Council to further the use of materials based on a four-inch unit.

Students Visit Dravo

West Virginia University recently sent 43 of its engineering students on an inspection trip to the Pittsburgh plant of Dravo Corporation (A.G.C.).

Another recent inspection trip to Dravo's shipyard facilities was made by officer students from the Army Engineer School, Advanced Course, Washington, D. C., during a tour of Pittsburgh District flood and navigation control activities. Colonel Conrad P. Hardy, Pittsburgh District Engineer, accompanied the delegation.

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City.....State.....

» SAFETY COMES only through careful planning and constant vigilance—it is never a matter of chance, declared Walter L. Couse, president of The Associated General Contractors of America in speaking at a dinner of the Michigan Safety Conference in the Book-Cadillac Hotel, Detroit, May 16. The event was sponsored by the Steel and Metal Erecting Association of Michigan.

A.G.C.'s president recommended cooperative action by management and union in a program of accident prevention. He insisted that a delay in such action might mean having the subject of safety thrown into politics with its hampering state and federal controls.

"It is my belief that it would be very disappointing in the long run to have any state or federal inspection in regard to safety, as the situation might very easily develop where these inspectors would have sufficient power to shut down work, conflict with job methods, etc. Further, as has happened in other sections, this practice would create jobs of 'featherbedding' for political employees who theoretically are supposed to be men of experience," said Mr. Couse.

W. L. Johnson Program Praised

"It is a job we can accomplish through our own efforts," he added.

For a practical example of planned safety, the speaker described in considerable detail the program being carried out by the W. L. Johnson Construction Company, A.G.C., Columbus, Ohio.

Basically, this program consists of the appointment each week of an inspection committee composed of a supervisor, a craftsman and a common laborer. By changing the personnel each week, the management gets the safety ideas of more employees, members of the committee learn what hazards to look for, and interest in the program is maintained at a high level among the various gangs. Each committee member receives \$5 for his services.

Mr. Couse read several typical Johnson Company committee reports and cited among the remedial measures a 15-minute safety discussion each week by the carpenters and a daily clean-up by the carpenters' helpers.

Another feature of the Johnson program is a weekly memorandum from the job superintendent to all foremen. This memo calls attention to various hazards to be checked during

that week's operations. Each foreman is expected to provide the necessary guards and protections and to alert his men to all dangers, both specific and general.

Couse to Adopt Program

"I believe this firm is doing an excellent job," said Mr. Couse. "Its efforts are certainly going to be applied to our own firm's program, and I believe merit your consideration as well. (Mr. Couse is president of Walter L. Couse & Company, Detroit, Michigan.—Ed.) It has developed unusually good results not only in job policing and anticipation of possible accidents, but also through the ever changing of its safety committees, it has made its men safety conscious and instinctively aware of factors and conditions on the job that can cause accidents.

"It has endeavored to place control over accidents at the site and on the job and to create real accident prevention through the men themselves. The men sell themselves on the hazards of their own jobs, and through proper coordinated planning from the main office, the entire safety program becomes a cooperative effort that has the pride of the entire firm. The worker knows he is safer on that job because of a sense of cooperation from and with his co-workers based on a common interest—greater safety to every man."

The Detroit contractor emphasized the fact that safety pays big dividends in actual dollars and cents. In the matter of insurance alone, a reduction of \$10 in the insurance rate would lower the insurance cost approximately \$10 million annually over the country. This does not include the savings in lost wages when a man is injured, the job slowdowns, possible equipment damage, spoiled work and the like. A marked improvement in the safety record is the only thing that will bring down insurance rates, he held.

On the other hand, Mr. Couse indicated that an increase in insurance rates penalized the company called

upon to pay a higher rate. "In the present market of intense competition, not only are the chances (of the higher bracket firm) jeopardized in getting new work, but the future of every man in the firm is jeopardized if safety is not lived and worked every day on the job."

Mr. Couse urged a careful scrutiny of the safety record of each prospective employee. While admitting the difficulties in securing a complete history of each individual through his former employers and his union, he held it was the best method for eliminating claims and reducing carelessness. Claim-minded workers will not apply if they know such an investigation is being made.

New Men and Accidents

"I'll wager it will surprise you to analyze your accidents of the past year and see how many had involved new men not previously known to your organization," he said. "A reasonable effort on the part of each organization represented here along these lines would bring surprising results toward few accidents. I know in our organization of at least three cases where we have been stuck for large compensation claims by employees where an earlier investigation would have meant not hiring the men. A thorough study of your employee requirements before the job starts will develop a pool of reliable workers and will permit you to reduce your accidents and particularly your alleged claims."

Mr. Couse paid tribute to two men who had been outstanding pioneers in the cause of safety in the early days of the A.G.C.—W. E. Wood, who was president-elect of the Association at the time of his death in 1922, and R. E. "Peggy" Paris. He credited Mr. Wood with providing the impetus for producing the A.G.C. *Manual of Accident Prevention in Construction* first published in 1927 and now undergoing its third revision. Mr. Paris was an earnest apostle of safety who had worked zealously for accident prevention."

Studies Show an Accident Costs an Average \$5,250

- Based on Statistics in Construction Industry
- Employer Pays Four for Every Insurance Dollar

» EACH TIME a construction worker suffers a disabling accident it costs an average of \$5,250.

For every dollar paid by the insurance company, the employer pays four dollars more for the same accident.

This information is disclosed in the findings of two exhaustive accident studies recently completed. Although these surveys are based on statistical averages, every contractor should consider them in the light of his own accident record and what he is doing to provide greater safety.

Current estimates for 1950 indicate a probable \$30 billion volume of construction, including maintenance and repair. Assuming payroll costs of 40 per cent, and an average insurance

rate of \$3.50 per \$100 of payroll (both considered conservative estimates) the cost of insurance to cover this volume of construction amounts to \$420 million.

A most conservative valuation (only half of that given in the survey) of "hidden costs" totals twice compensation insurance costs.

Out of the six billion exposure-hours represented by this payroll there are likely to be 240,000 accidents, based on a frequency of 40. Therefore each accident costs the construction industry an average of \$5,250.

Let us consider a contractor performing a volume of \$1 million a year. Using the industry's averages, he has a payroll of \$400,000, compensation

insurance costing \$14,000, and indirect or hidden costs of \$28,000 for a total accident outlay of \$42,000. If he has the average number of accidents for his group—eight—the cost to him for each accident is \$5,250 or the average for the industry.

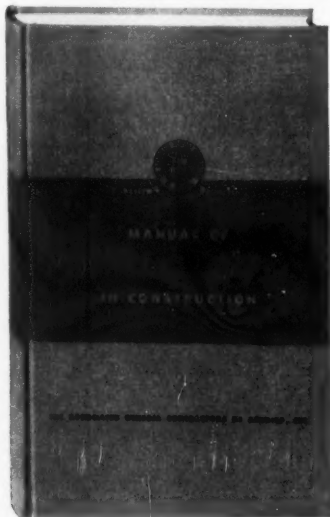
This loss of \$42,000 represents 10.5 per cent of the contractor's payroll—more than 10 cents of every payroll dollar spent on accidents. A safety program that would effect a saving of even half of this amount would mean an additional profit of \$21,000 to this contractor.

Cost of One Accident

Omitting the human angle—the price in suffering paid by the injured man—the "hidden costs" of any accident are revealed in the analysis of 1,000 typical construction accidents:

1. Compensation cost—the amount paid by the insurance company for compensation losses and medical expense . . . 20 per cent.
2. Cost of lost time of injured employee where paid by employer although not due

(Continued on page 94)



the new 1949 edition of the

MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION

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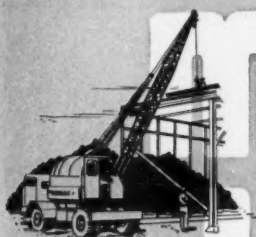
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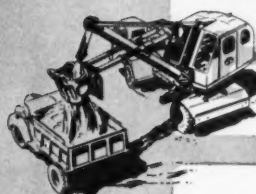
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12 ton



Series 8
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Model C-16
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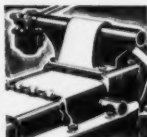
—why he bought a Michigan Truck Excavator. It could have been Michigan's famous mobility . . . the heavy duty Michigan truck chassis . . . high yardage through air controlled clutches . . . cast steel turntable base . . . hook rollers . . .

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COMFORTABLE CAB
Operators like it! Plenty of leg and elbow room for big men. Wide angle visibility through big, rubber-set windshield and windows. Familiar, automotive-type controls.

ACCIDENT PREVENTION

(Continued from page 92)

under compensation law . . . six per cent. 3. Cost of time lost by other employees who stop work (a) out of sympathy; (b) out of curiosity; (c) to assist injured person . . . 15 per cent. 4. Cost of time lost by foreman, supervisor or others: (a) assisting injured; (b) investigating cause of accidents; (c) arranging for injured employee's production to be continued by some other employee; (d) selecting, training, breaking in new employee to replace injured one; (e) preparing state accident reports or attending hearings before industrial commissioner . . . seven per cent. 5. Cost of time spent on case by first-aid attendant and hospital staff when this time is not compensated by insurance . . . four per cent. 6. Cost due to damage to the equipment, tools or other property or to spoilage of material . . . 16 per cent. 7. Incidental cost due to interference with production, failure to complete job on time, loss of bonuses, payment of liquidated damages and other similar causes . . . 11 per cent. 8. Cost to employer in wages, in full, to the injured employee, although if not fully recovered his services may be worth only 50 per cent of their normal value . . . 12 per cent. 9. Cost due to the loss of profit on injured employee's production . . . nine per cent.

Of these nine items, it will be noted that only the first is paid by the carrier. The cost of the remainder—commonly called indirect or "hidden costs"—is borne by the employer.

Some Other Costs

These costs are not all that the contractor must bear. The safety code laid down by the majority of the states incorporates a clause by which the employer can be penalized for the code violation which caused the accident, and this penalty can be assessed against the employer without recourse to the insurance company.

For example, if an employee were to sustain an injury due to the violation of a state safety code, and his compensation were to amount to \$1,000, the employer could be penalized up to 100 per cent of the primary compensation benefits. This would result in the employer paying all costs—insurance, compensation, and indirect or hidden costs, since insurance companies are prohibited by law to insure against such penalty.

Loss of good will, both of the public and the employee, is another cost impossible to measure in dollars and cents. There is no better builder of morale than an honest, persistent safety program, because all men prefer to work in a safe place. Conversely there is no better way to destroy morale than to have a high accident frequency record.

Any of the expenses cited here, whether borne directly by the contractor or by his carrier, are a definite threat to his success when they rise above those of his competitor. The contractor performing a \$1 million job will have a compensation insurance bill of some \$14,000 without experience modification. However the contractor with a good safety record extending over a long period may have to pay only half of that amount, while the

contractor with an exceptionally bad record may be paying twice as much, or \$28,000 for exactly the same protection.

Obviously the bidder paying a high rate of compensation insurance is in a poor position to compete with a bidder enjoying a 50 per cent credit rating who will pay \$21,000 less for same protection on a \$1 million job.

The moral in this is clear. In these days of intense competition, only a contractor who keeps his costs to a minimum can hope to be low bidder.

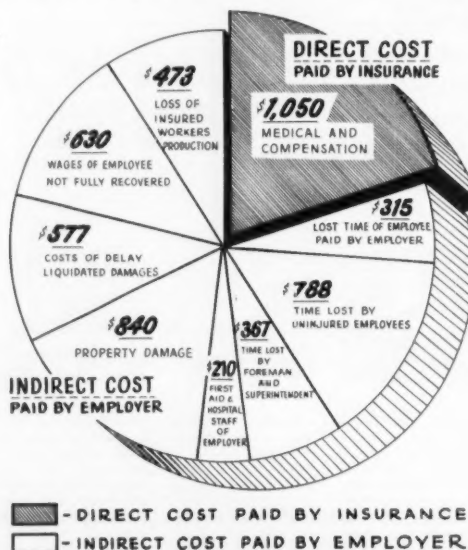
Effect on Insurance Rates

For years the results of accident prevention effort have been recognized. Insurance companies have encouraged this work by various forms of experience rating systems whereby employers are given a reduction in insurance premium rates when their records show a reduction of losses. State rate-governing bodies determine reduction from experience and establish credits and debits that apply to the manual rates.

Although it is possible that actual premium rates per \$100 of payroll may increase because of additional use of machinery and labor-saving devices, concentrated production per man, amended benefits under compensation acts of various states, and increased costs in administering such acts, still the dollar cost of insurance per unit of construction will not be high with proper active accident prevention. On the other hand, in the absence of a well-run accident prevention program, the cost of accidents will be more and more and will increase the cost of construction.

An insurance company's expenditure for losses is presumed to dictate its requirement for more premium, or less, as the case may warrant. Many A.G.C. contractors, as shown in the association's accident prevention contest, have concrete evidence that rates follow the losses downward just as others, to their sorrow, can prove the opposite trend in rates following excessive and unnecessary losses.

The formula is simple: Reduce losses, keep records of costs in dollars and cents, demand recognition from the carrying company, or failing that, seek competitive proposals. It is a safe prediction that competition of insurance companies will cause recognition in the form of rate reduction.

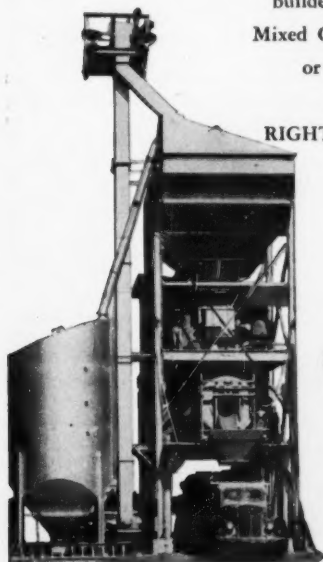


How \$5,250 Average Accident Cost Is Divided



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ACCIDENT PREVENTION

Minnesota Highway Safety

An aggressive program to insure greater public safety on highways under construction is being carried on in Minnesota through the cooperation of the state highway department with A.G.C.'s affiliate, The Associated General Contractors of Minnesota, R. J. Hendershott, manager of the contractors' organization advises THE CONSTRUCTOR.

The first step is a conference or series of conferences between the project engineer and the contractor to analyze measures for the protection and guidance of the travelling public. Emphasis is laid on the responsibility of the project engineer and the cooperation of the contractor to see that traffic warning and traffic control signs keep up with the progress of the work.

Placement of job signs carrying the contractor's name and address at both ends of a project is purposed. This requirement it is believed will develop a greater sense of responsibility on the part of workmen on the project and a more courteous treatment of the travelling public. Space is provided in the requirements for the signs for an A.G.C. emblem. These emblems are 10" in diameter, made of metal and in color. A.G.C. members may obtain them from the association without charge.

A development of this safety program is the introduction of a provision appearing for the first time in projects let June 16, providing a bid item on flagmen hours. All flagmen required to provide satisfactory service to the public will be furnished by the contractor and paid for by the state. The contractor is not relieved of his responsibilities or liabilities to perform the work safely and with the least interference with traffic. A booklet instructing flagmen in the duties of traffic direction has been brought out by the highway department.

"This program may be described as a combined public relations and traffic safety effort," Mr. Hendershott explained. "The cooperation not only of the contractors but of their superintendents, foremen and all workers on the job is absolutely essential to create conditions which will best permit the work to be done expeditiously and at the same time accommodate the travelling public without a series of bad accidents."

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Central Louisiana Chartered; North Dakota Chapter Forming

• R. J. Jones President of New Southern Group

» THE CENTRAL Louisiana Chapter of The Associated General Contractors of America, located at Alexandria, was activated in May when W. Murray Werner, national director of District 4, presented the charter to R. J. Jones, president of the new chapter.

Mr. Jones, in his acceptance speech, stated that the contractors of Central Louisiana had joined to give the public the best service possible. He used the theme of "construct by contract" to describe the vast potentialities of the state. He said that the use of adequate materials in all types of construction was the duty and responsibility of every contractor.

Burt L. Knowles, engineer advisor of the national A.G.C. in Washington, D. C., presided at the ceremony banquet and formally installed the chapter's officers. They are as follows: president, R. J. Jones, R. J. Jones and Sons, Alexandria; first vice president, J. E. Ratcliff, Ratcliff Construction

Company, Alexandria; second vice president, Joseph Gossen, Gossen Construction Company, Lafayette; secretary, H. L. Cariker, Tudor Construction Company, Alexandria; and treasurer, Barnet Brezner, also of Alexandria. The chapter's executive secretary is S. P. Eggers, Jr.

The 25 members of the new chapter were advised by speakers C. A. Schneider, Houston, Texas, A. N. Goldberg, New Orleans, and Mr. Werner, Shreveport, all national directors from District 4.

North Dakota Upcoming

About the end of September, the Associated General Contractors of North Dakota expects to have its charter presentation ceremony.

Officers to be installed at that time are: Jos. M. Powers, T. F. Powers Construction Company, Fargo, president; Orval Hagen, I. E. Orheim Company, Minot, secretary-treasurer. R. J. Hendershott, manager of the

A.G.C. of Minnesota is the present manager of the North Dakota Chapter.

The prospective chapter has 20 members, 14 of whom transferred from the Minnesota chapter. The members are engaged in building, highway and heavy construction.

Matthew Cummings Dies

Matthew J. Cummings, 58, member and former director of The Associated General Contractors of America, died May 28 in Dorchester, Massachusetts, after a long illness. Funeral services were held May 31, with solemn requiem mass at St. Gregory's Catholic Church, Dorchester.

Mr. Cummings, who assumed control of the Matthew Cummings Company, Boston building firm, after his father's death 12 years ago, was a past president of the A.G.C. of Massachusetts, and was active in national A.G.C. affairs.

A native of Neponset, Massachusetts, he graduated from the Mechanic Arts high school in Dorchester, and joined his father's firm when it was founded in 1922. He was a Navy veteran of World War I, a past commander of Old Dorchester Post No. 65, American Legion, and a member of the Engineers Club of Boston.

Surviving are his wife; a son, Matthew J. Cummings, Jr., of Natick, Massachusetts; two daughters, Misses Ruth and Barbara Cummings; and three sisters, Misses Mary and Ellen Cummings, both of Jamaica Plain, and Mrs. Margaret O'Riordan.

Edward P. Conway Dead

Colonel Edward P. Conway, 69, a member of the Arizona Chapter, A.G.C., since 1933, died at his home in Phoenix on June 6, after five years of illness.

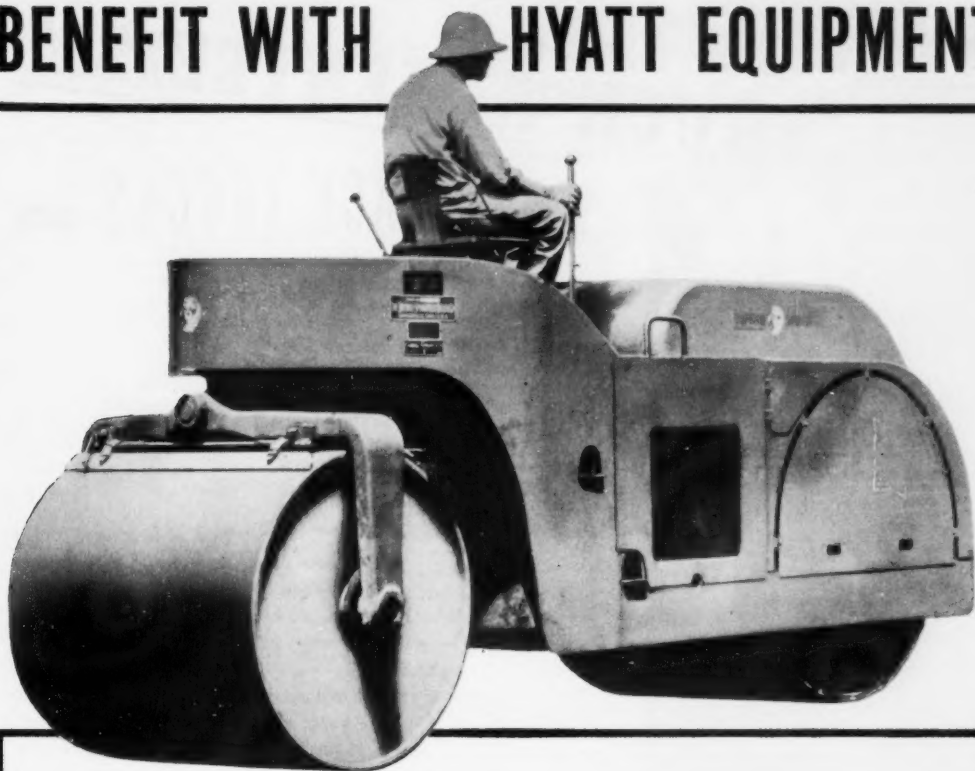
Colonel Conway was president of the Phoenix-Tempe Stone Company which is engaged in highway and heavy construction. In 1911 Colonel Conway was awarded a contract for the first street pavement to be laid in Arizona and for many years following, all the paving done in the state was under his direction.

During World War I, he was a lieutenant colonel in the Army Corps of Engineers, and later held the same rank in the Arizona National Guard. Colonel Conway is survived by two sisters, both of Phoenix.



Chapter President R. J. Jones, right, receives charter from W. Murray Werner.

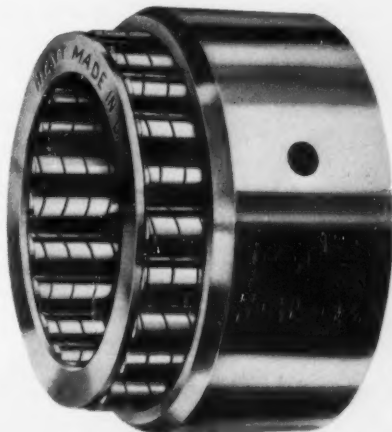
MACHINE BUILDER AND USER ALIKE BENEFIT WITH HYATT EQUIPMENT



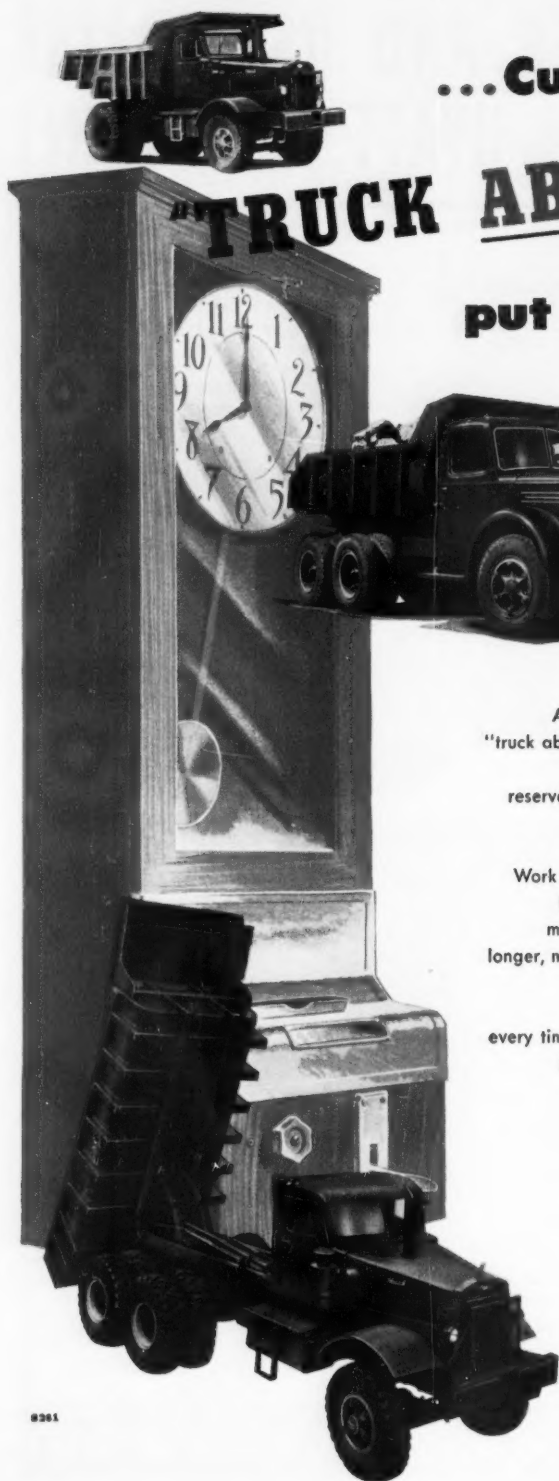
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(Second of two articles on the report of the British Building Industry Productivity Team)

» BUILDING construction in the United States is described accurately and objectively in the 82-page report of the British Building Industry Productivity Team which visited various sections of this country in 1949. What this representative delegation of British contractors, architects, engineers and labor representatives saw here, how they reacted to our methods and operations, and how these procedures and practices differ from their own is set down in clear, forceful text by the team secretary, C. Gordon Rowlands, M.A., secretary of the National Federation of Building Trades Employers.

Every phase of the American building industry as seen through British eyes is thoroughly covered in this treatise which is profusely illustrated with photographs, drawings, charts and tables to support the subject matter. That the visitors were deeply impressed by American organization, speed and efficiency is cheerfully admitted, and the report's comments on these and other matters are of interest both to contractor and layman.

Comments on features that the British team thought particularly significant are quoted directly from the report:

Our Hospitality Enjoyed

"The Team was welcomed and entertained in every city by the local chapters of the American Institute of Architects, the Associated General Contractors of America and the American Federation of Labor. (Building Trades Department) and by the local Building Trades Employers Associations. A great deal of trouble had obviously been taken by the presidents, chief officials and members of these bodies to make each visit as helpful as possible to the Team. The National Association of Homebuilders and its local chapters in many of the centers also cooperated to the full. In addition to the luncheons, official but delightfully informal, arranged by these bodies, special mention should be made of the generous hospitality received from many individual architects, engineers, contractors and union leaders."

Job Organization a Model

"The fact that job organization is the duty and responsibility of the general contractor is recognized to the

The American Building Industry As Seen Through British Eyes

- Report Received Unusual Play in Newspapers
- Notes Centralized Control in U. S. Contractor
- Meetings Scheduled by Team Throughout Britain

full in America. British contractors can derive considerable benefit from studying American methods of organization, including the intelligent and mutually helpful cooperation which exists between general contractor and sub-contractor and between one sub-contractor and another, and the efficient dovetailing of trades on the job which results."

Speed and Efficiency

"Every member of the Team was greatly impressed by the spirit of initiative and cooperation which appears to characterize each section of the American industry and which is shown by the attitude of all toward the work in hand. A general belief in the need for experiment and progress; agreement that an earlier generation's method of approach to any particular problem is by no means sacrosanct, but is always capable of improvement;

and direct material incentives to self-advancement, coupled with penalties for failure to keep abreast of the times—these are all factors reflected in the speed and efficiency of construction in the United States.

"The speed with which American buildings of all sizes were erected remains one of the Team's deepest impressions. The fixing of 700 tons of steel work in three and a half days on a state hospital contract and the erection of the framework and floors of two stories of a skyscraper block in one week were perhaps the most remarkable of many instances of speedy building which were seen."

Cooperation at All Stages

"Speed and efficiency in the U. S. A. are based upon organization and cooperation at all stages—cooperation between the client, the architect or engineer and the contractor; between

British Press Plays Up Building Report

A furore in the British press resulted from the release of the British Productivity Report reviewed in *THE CONSTRUCTOR* last month and in this issue.

Leading newspapers in the United Kingdom apparently accepted the report as unbiased and authentic, and looked upon it as a warning to the British building industry, to workers, and to the government. It is perhaps significant that little attempt was made to explain away the fact that we build faster and more efficiently in America, that we build more and are better paid.

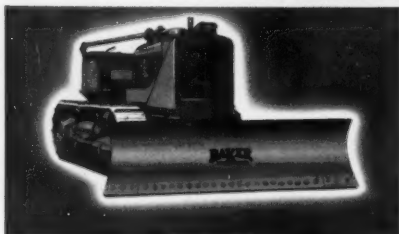
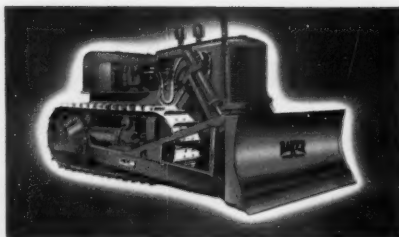
A study of a large number of clippings reveals that features which attracted British reviewers included the need for new incentives, removal of government restrictions, stepping up of productivity by the individual worker, and improved methods of organizations. One of the most frequently quoted statements in the report is that "the American has never acquired the habit of doing less than he is capable of doing." Much is made of labor's representatives on the team and the unanimous tone of the findings.

Typical banner lines: "BRITONS TOO SLOW," "BUILDERS WORK MORE IN U. S.—WORTH IT," "BUILDING: 'END ALL CURBS.'"

The building report received more publicity than that of any other British productivity team visiting the U. S.

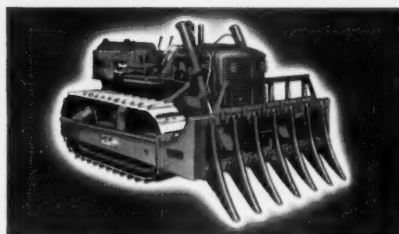
The team did not rest on its report after returning to Britain, but immediately set up a series of local meetings during June throughout the country.

BULLDOZER For your Allis-Chalmers HD-5, HD-7, HD-10 or HD-19 tractor, Baker has a specific bulldozer model. Ask your Baker A-C Dealer to show you the "do-more" advantages of each unit, or write for Bulletin 880 (hydraulic models) or specification sheets on cable controlled models.



GRADEBUILDER Baker Gradebuilders, hydraulic or cable controlled, can be quickly interchanged with the Bulldozer. Gradebuilder blade is easily tilted or angled for fast, accurate grading. For complete specifications write for literature.

ROOT RIPPER The Baker Root Ripper is designed for general land clearing operations. Available as an attachment to the Bulldozer or Gradebuilder frame, it also comes as a complete piece of equipment. Write for specifications.



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Baker Road Ripper—a heavy-duty, cable controlled unit featuring deep penetration.



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FOREIGN CONSTRUCTION

the general contractor and the subcontractors; and between all contractors and their operatives. It is based also upon the ready availability of every material and fitting, upon an adequate supply of labor and upon the opportunity thus provided for the complete pre-planning of the entire structure so that each member of the building team can set a target he knows he can and *must* reach. These factors are, of course, fundamental to the efficiency of any industry, and it must be appreciated that, through no fault of the British building industry itself, they are not present in Britain today. Without them the American spirit of initiative would not have full scope, nor could plans for the reorganization of the British building industry have more than temporary effect."

"It must not be thought, however, that the British building industry could afford to be complacent even if the pre-war adequacy of labor and materials were to return. American experience shows that the industry as a whole must be determined to progress if it is to maintain a standard of efficiency relative to that of other industries. The impulse of American progress, is, of course, derived from the spirit of competition and under its constraint all concerned strive continuously to reduce costs."

Competition Serves as Spur

"As Philip Reed (joint chairman of the Anglo-American Council on Productivity) pointed out to the Team at its first meeting in New York, competition is 'the burr under the saddle that keeps Americans going.' It had a very important effect in stimulating them to do new and different things to improve products and keep costs down. He expressed the view that 'the United Kingdom and the other countries of Europe did not seem to benefit from it to the same degree.'

Firms of Standing in A.G.C.

"Our examination of the American building industry has shown us that competition is indeed a spurring force. Architects compete in efficiency in their relations with their clients and with contractors; there are more contractors than contracts, and competition for work is evident both in time and price. There are more workers than jobs, and there is competition to gain and retain the jobs which provide the high standard of living of the American building operative.

(Continued on page 105)



ROAD WIDENING

**MADE
EASY**

Road widening came under the heading of "better solution wanted" back in the days when trench compaction meant costly hand-tamping—or using a 3-wheel roller at precarious angles on work it was not designed to perform. Today, thanks to the Buffalo-Springfield TR3-B Trench Roller, the headaches and hazards have been largely removed from this type of work.

The specially-designed TR3B trench roller has a 16" wide compression roll* which works *in* the trench. The large diameter of this roll prevents shearing or pushing of surface materials; insures an even penetrating compaction. Likewise, means are provided to increase the weight of the roll to produce compressions in excess of 325 lbs. per inch of roll face width.

*20 in. wide compression roll also available.

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Built with an eye to economical performance and low maintenance costs, the TR3B has increased production and trimmed operating costs on all types of trench compaction. If road widening looms prominently in your job picture, it will pay you to learn more about the Buffalo-Springfield Trench Roller from your nearest distributor. See him today.



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STADIUM—Fenestra Entrance Doors in the Stadium at Grand Rapids, Michigan.

Architect: Wilfred P. McLaughlin,
Grand Rapids

Contractor: George Datema & Sons
Builders, Inc., Grand Rapids



SCHOOL—two of 135 Fenestra Metal Doors, Frames and Hardware in Robert N. Mandeville High School, Flint, Mich.

Architect: Bennett & Straight,
Dearborn, Mich.

Contractor: Karl B. Foster, Flint, Mich.



SUPER MARKET—Fenestra Entrance Doors, Frames and Hardware in Eberhard's Super Market, Grand Rapids, Mich.

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Contractor as Stadium.

A stadium entrance jammed with jostling crowds. School kids opening classroom doors with their feet. A super market seething with shoppers. In and out . . . out and in . . . all day long. That's tough treatment! And that's one of the reasons why Fenestra® Hollow Metal Doors were selected for those spots. They won't sag, warp, swell, shrink or splinter . . . an occasional coat of paint makes them look like new.

Some of the other reasons:

- 1. High Quality**—Fenestra Hollow Metal Doors are made by craftsmen long skilled in steel fabrication. Each door is insulated for quiet performance. Each comes wrapped to protect the gleaming finish.
- 2. Complete Unit**—Door, strong steel frame and shining hardware, designed as an attractive unit, ready to install.
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- 4. Delivery in 2-3 weeks**—Action is taken upon receipt of your order. Local stocks can usually deliver immediately.

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DOORS • WINDOWS • PANELS

(Continued from page 102)

"An important difference from the British set-up is the absence in the United States of any differentiation between building and civil engineering contractors. Practically all general contracting firms of standing are organized nationally in The Associated General Contractors of America Inc. (the A.G.C.) which is divided, for administrative purposes, into a Building Division, a Heavy Construction and Railroad Contractors Division and a Highway Division. There is no difference in status between the members of these sections, which collectively form a single construction industry."

Team Spirit on the Job

"Effective coordination and correlation of the work of sub-contractors is one of the most striking features of the American contract organization. The relationship between the general contractor and sub-contractors and between one sub-contractor and another is usually excellent, and from the time construction starts a team spirit is built up among all concerns which does much to insure the success of the job. Sub-contractors appeared in general to be more efficient and more responsive to good organization by the general contractor than is normally the case in Britain."

State Registry Opposed

"There is no national system of qualitative registration for general contractors, but about a dozen states, mainly in the southern and western parts of the country, have registration for the licensing of contractors doing constructional work in the state. The legislation was generally supported at first by the local chapters of the Associated General Contractors as being aimed at the elimination of unqualified contractors, but their experience of its administration has led to a desire for repeal. Reasons given for their change of attitude were (1) that political considerations may influence decisions of the licensing boards; (2) that it is possible so to apply the laws as to exclude or hamper firms coming from other states; and (3) that the charges for licenses, which are renewable annually and bring a fairly substantial revenue to the state treasuries, are a direct tax on building activity. . . ."

"In comparing the number of ad-

ministrative staff required in the two countries, it is necessary to bear in mind that a British contractor with a business of any size is forced to maintain a large clerical staff to deal with (1) government regulation and controls of all kinds and (2) the settlement of contracts. The amount of correspondence under these two heads is usually considerable. There is no corresponding burden on the American contractor. Even apart from these matters, the volume of general correspondence seemed to be lighter in America. It is not surprising, therefore, that the Team found, in general, the head office staff was considerably smaller than in Britain and the overhead costs in respect of this item consequently lower."

"The number of administrative and supervisory staff employed on the site in America is, by contrast, generally larger than would be employed for a comparable job in Britain. Among the reasons for the difference are the greater measure of devolution

of responsibility from the head office in America and the more insistent demand for efficiency of job organization and speed of construction. . . .

Staff Education Better

"The supervisory staff of contractors appeared on the average to possess better educational qualifications than men employed in corresponding positions in Britain. The majority of the agents and almost all the junior engineers would have had a full-time high school education up to the age of 17 or 18, followed usually by a technical school or college course lasting a further 4 or 5 years. . . . The efficiency of American building is greatly assisted by the existence of this large group of college-trained technicians."

"In Britain there are comparatively few senior courses in building construction and men who graduate in civil engineering do not normally seek employment in the building industry. It is important to notice that in Amer-

(Continued on page 108)



Members of the British team examining lattice ceiling joists on a Detroit job, accompanied by A.G.C. President Walter L. Couse (second from right). At extreme right is Robert O. Lloyd, team leader and senior vice president of the National Federation of Building Trades Employers in Britain. C. Gordon Rowlands, team secretary, is third from right.

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5. Simpler design gives you an easier machine to work on... simplifies maintenance... reduces lay-up time... cuts costs.

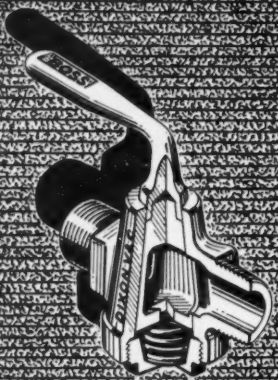
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FOREIGN CONSTRUCTION

(Continued from page 105)

ica there is little or no differentiation between building and civil engineering, and interchange of staff between all sections of the construction industry is more common than in Britain.

"Similarly there is frequent transference between the staffs of architects and contractors without any loss of status. These men thus possess some knowledge of architectural procedure and at the same time a sound practical knowledge of contract organization. It follows that the collaboration between the representatives on the site of architect and contractor is likely to be closer and more effective than in Britain."

U. S. Highly Mechanized

"The high cost of labor in America and the relatively low cost of plant in relation to labor costs make it natural that the building industry should be mechanized to a greater extent than in Britain, and that machinery should be employed on various operations that would be more cheaply done here (in Britain) by manual labor.

"The fact remains, however, that, although many of the machines and tools seen in use during the tour are available in Britain, mechanization is employed much more effectively and more continuously in America. To achieve maximum production, it is vital that British contractors be persuaded of the advantages of more intensive mechanization and that British operatives should be trained to take care of plant and to use it effectively. Contractors would be persuaded the more easily if the regular supply of materials to the job could be guaranteed. Expensive plant must be continuously in use if it is to be an economic proposition."

Praises Contractors, Subs

"The Team was greatly impressed by the energy, initiative and general efficiency of American building contractors and sub-contractors and their supervisory and administrative staffs. The incentive of competition, both in price and in standards of efficiency, drives them forward and makes good team work more than ever essential. The client requires results in the shape of a given amount of work executed in a given time, and it is not possible to plead government controls and other extraneous circumstances as excuses for inadequacy of performance.

"In various ways the American contractor insures that, on the great majority of jobs, the client's require-

ments are fully and promptly met, because he knows that whatever might be the reason, any failure will reduce his profit and injure his reputation.

"In Britain it has unfortunately been inevitable that ten years of short supplies of materials and labor, and the consequential government controls, should take their toll of the driving force and spirit of initiative in many firms.

"It is easy under such conditions to put forward excuses—often valid excuses—for failure to comply with contractual requirements, but the industry will regain its full health only if, and when, all concerned realize that no excuse can palliate faulty organization.

"It was emphasized to the Team in the strongest terms by both architects and contractors that the early supply of complete and detailed information is a fundamental factor in securing speed of construction.

"The time required by the architect to assemble and prepare the necessary documents is more than made up by the rapid progress the contractor is able to make when the work begins. . . . Certainly the time between the placing of the contract and the start of the work is in general no longer than in Britain."

A.I.A.-A.G.C. Forms Standard

"Standard forms of building contract are agreed between the American Institute of Architects and the Associated General Contractors, and are subject to amendment from time to time in the light of changes in conditions or building practice. Frequent revisions are regarded as undesirable, inasmuch as they might detract from the value of the forms as standard and also render useless legal interpretations of particular clauses.

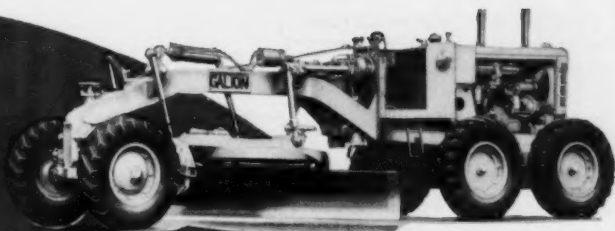
"Standard procedure in America for inviting tenders (bids) and letting contracts is indicated in 'A Suggested Guide to Bidding Procedure,' a document prepared by the American Institute of Architects and the Associated General Contractors." (Relative to the importance of complete and accurate drawings and specifications, the report quotes from the Guide at considerable length.—Ed.)

Coordination by General Contractor

"The standard form of sub-contract is agreed between the American Institute of Architects, the Associated General Contractors and the various organizations of sub-trade contractors;

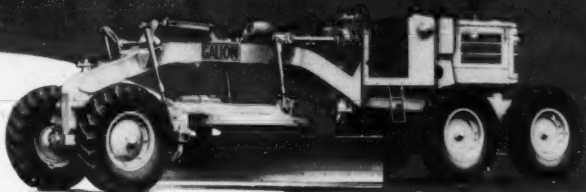
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**MORE
and
MORE-**

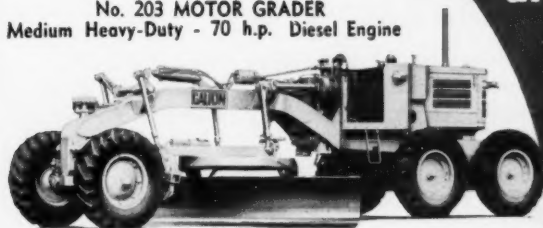


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100 h.p.
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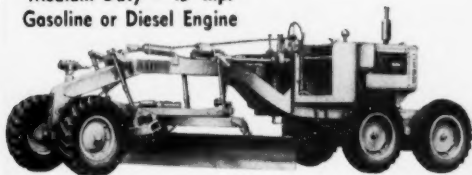
No. 103
MOTOR GRADER
Heavy-Duty
- 76 h.p.
Diesel Engine



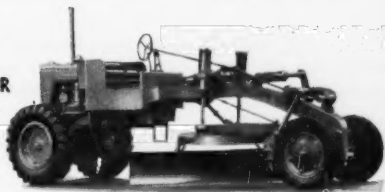
No. 203 MOTOR GRADER
Medium Heavy-Duty - 70 h.p. Diesel Engine



No. 303 MOTOR GRADER
Medium-Duty - 45 h.p.
Gasoline or Diesel Engine



No. 402
MOTOR GRADER
Light-Duty -
31 h.p.
Gasoline
Engine



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(Continued from page 108)

the general conditions of the form are also included in the main contract. The principal point of interest is that a sub-contractor may apply to the architect for information on the amount of payments certified in respect to his part of the main contract works, but it is specifically provided that nothing contained in the contract documents shall create any contractual relation between any sub-contractor and the owner, and that there is no obligation on the part of the owner to pay or to see to the payment of any sums to any sub-contractor.

"In short, the forms of contract make the general contractor responsible for the whole of the organization of the job and place him in complete control of all his sub-contractors. He is, moreover, in a contract of this type, the sole judge of the amount of the contract works for which sub-contractors are to be employed. Having then the full responsibility and control, the general contractor can concentrate on speed and efficiency. It is recognized in America, as in Britain, that job organization is not the province of the architect and that, if he interferes, he may expose his client to extra costs, and even, in an extreme case, make himself liable to claims by the contractor for loss of profits."

Americans No Shirkers

"After taking all factors into account, the large part of the difference between British and American productivity can be accounted for only by the individual attitude towards work, an attitude which reflects the whole pattern of American industrial life. In America, the worker is actuated by the same impulse that moves every other member of society there, believing that by hard work only can he obtain the maximum financial benefit for himself. He has never acquired the habit of doing less than he is capable of doing. . . . Under the American system of free enterprise, the employer is recognized as entitled to his profits. Indeed the larger the profit a firm makes and the more established its reputation, the greater is the desire of its employees to continue to be associated with it.

"No over-all figures of net profits can be given, but it can be said that nothing was observed which led the Team to assume that profits made in the American building industry were of a different order from those normally made in Britain."

BID OPENING DATES OF LARGE PROJECTS

OPENING DATE	AGENCY	PROJECT
July 11	Corps of Engineers New Orleans, La. Dist.	Inv. No. CIVENG-16-047-50-284. Superstructure of gated portion of Morganza control structure in Pointe Coupee Parish, La.
July 19	U. S. Atomic Energy Comm. Oak Ridge Operations Oak Ridge, Tenn. Att: Mr. R. E. Dunbar	Inv. No. 401-50-20A. Isotope research semi-work bldg.
July 25	Veterans Administration Washington, D. C.	Specs. No. 5030. 500-bed G.M. hospital, Oklahoma City, Okla.
August 2	Department of the Navy Bureau of Yards & Docks Washington 25, D. C.	NOY 21379. Specs. No. 24410. Naval aeronautical turbine laboratory, Trenton, N. J. Air valve and control.
August 2	Department of the Navy Bureau of Yards & Docks Washington 25, D. C.	NOY 20901. Great Lakes Naval Training Station, Great Lakes, Ill. Tank farm at Olathe, Kansas.
Aug. 15	Corps of Engineers Pittsburgh, Pa. Dist.	750-bed Vet. Adm. hospital Pittsburgh, Pa.

NOTE.—The delay in appropriating the necessary funds for federal agencies to continue construction projects in fiscal year 1951, which began July 1, has necessitated the holding up of advance scheduling of a number of large projects. As June ended, the Congress was still debating on the general appropriations bill, which for the first time has all federal funds wrapped up in one package. (See story on page 35.)

Reporting agencies: Department of the Army, Corps of Engineers; Department of the Interior, Bureau of Reclamation; Department of the Navy, Bureau of Yards & Docks; Bureau of Community Facilities, and Public Buildings Administration of the General Services Administration; Department of Commerce, Bureau of Public Roads; Veterans Administration; U. S. Atomic Energy Commission. State, municipal and private projects reported by The Associated General Contractors of America.

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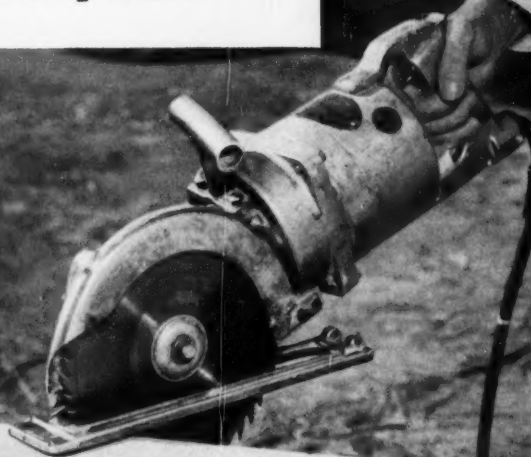
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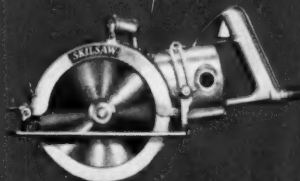
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» THE DEPARTMENT of the Army and The Associated General Contractors of America have taken steps to clarify the status of the reserve engineer units sponsored by many chapters and branches of the A.G.C. in the Army Affiliation Program.

The Army has reassured the sponsors of its sincere interest in the success of the A.G.C. affiliation activities which were undertaken in the fall of 1947 at the request of the then Secretary of War and the top command of the Army. Some misunderstandings and uncertainties had been expressed by A.G.C. sponsoring organizations since the announcement of the

The Reconstituted Organized Reserve Program
—Page 118

new Organized Reserve Corps program as of April 1, 1950.

In order to clarify the status of A.G.C. affiliated units, a conference was held by A.G.C. Managing Director H. E. Foreman and W. A. Snow, A.G.C. coordinator for the affiliation program, with Brigadier General D. A. D. Ogden of the Army General Staff and Colonel Robert J. Fleming, Jr., Assistant Chief of Engineers for Military Operations. The conferees discussed the A.G.C. program in the light of the new O.R.C. program, and various inquiries that had been received from sponsors.

Support "Deeply Appreciated"

As a result, a letter was transmitted to the commanding generals of the six army areas, stating in part:

"For the information and guidance of all concerned, present regulations prohibit any changes in the status of affiliated units affecting location, activation or inactivation without approval of this headquarters. Unit spaces in the U. S. Pool scheduled for affiliation will not be released for non-affiliation before some future date in calendar year 1951. Each affiliated U. S. Pool unit space requested at that time for a non-affiliated type unit will be considered as an individual case and approval will be contingent upon all interested agencies concurring that such a unit space cannot be supported in an affiliated status. It is further emphasized that in most instances the U. S. Pool spaces for affiliated units are only available to those area commands which have affiliated units presently activated. Earliest request of

Status of A.G.C. Affiliated Units Clarified by Army Department

- Clears Uncertainties Under New O.R.C. Program
- Sponsors Reassured of Service's "Sincere Interest"

U. S. Pool affiliated unit spaces for those existing affiliated units favorably considered for inclusion in the new program is deemed desirable."

In a letter to Mr. Foreman, General Ogden stated in part:

"I wish to assure you that the Department of the Army's stand with respect to the Affiliation Program has not changed and that the support your organization renders to our Organized Reserve Corps Program is deeply appreciated."

Synopsis of A.G.C. Program

Of the affiliated units in which the A.G.C. is interested, the new O.R.C. program provides for a total of 100, of which the association presently is sponsoring 80. Seventy-eight of these

units have been activated.

The three port construction and repair groups sponsored by A.G.C. chapters are removed from the new troop list basis, but other type units may be substituted for A.G.C. sponsorship.

In addition to the 80 units sponsored by the A.G.C., 24 others of the same type are sponsored by other organizations, making a total of 104, or four in excess of the 100 provided for in the new program. It is not known which four units will be selected for inactivation or transfer to training type units or to the voluntary reserve.

Any A.G.C. units that may be in the "U. S. pool" will not necessarily remain there indefinitely.

West Virginia Aviation Group Activated

The 985th Engineer Aviation Group, sponsored by The Associated General Contractors of West Virginia, was activated recently at cere-



At ceremony in Charleston's Army Reserve Armory. Seated, left to right, Colonel W. B. Carlock, senior army instructor of the state military district; Lieutenant Colonel R. L. Mundy, commanding officer of the unit; Eugene H. Brown, executive secretary of the A.G.C. of West Virginia; and Major C. H. Kern, assigned as engineer. Standing, left to right: Major T. B. Rutledge, adjutant; Major George W. Pride, executive officer; Major Max N. Goldfarb, supply officer; and Major Robert R. Knight, operations officer.

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NATIONAL DEFENSE

monies in Charleston, West Virginia.

Orders were presented to the group's commanding officer, Lieutenant Colonel R. L. Mundy, by Colonel W. B. Carlock, senior army instructor of the state military district.

Officers and Assignments

Officers attached to the group, and their assignments, in addition to the commanding officer, are: Major C. H. Kern, engineer; Major T. B. Rutledge, adjutant; Major George W. Pride, executive officer; Major Max N. Goldfarb, supply officer; Major Robert R. Knight, operations officer.

Major William A. Shearer, intelligence; Captain William R. Gentry, Jr., construction engineer; First Lieutenant Nathan W. Goodman, engineer equipment; Captain William L. Graham, company commander; Captain Raymond H. Agee, real estate and claims; Captain Thomas S. Nickerson, supply engineer; First Lieutenant Zane B. Slotter, training information and education; Second Lieutenant Kenneth E. Lamp, company executive and communications; First Lieutenant William H. Gardner, highway engineer; and First Lieutenant Robert E. Martens, intelligence assistant.

A cadre of 40 enlisted men is being sought for the group, which during wartime would command and furnish staff supervision for three to six engineer aviation battalions consisting of 900 men each.

Regular training meetings of the unit have been set for the first and third Tuesdays of each month.

Films for Training Units

As a result of letters of inquiry placed with manufacturers and distributors of construction equipment, a number of motion picture films have been listed by the national office of The Associated General Contractors as available to commanders of A.G.C. affiliated units for training purposes.

The films, selected from the firms' lists as being appropriate for showing to engineer construction units, depict such subjects as ditchers; shovels; draglines; shoes; grading, handling and loading all types of soil, gravel and rock; aggregates; paving methods with various equipment; saws; and bulldozer operations.

A number of the films are in sound and color.

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3	50
4	75
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7	150
8	175
9	200
10	250
11	300
12	350
13	400
14	450
15	500
16	550

ROCKMASTER: Reg. U. S. Pat. Off.

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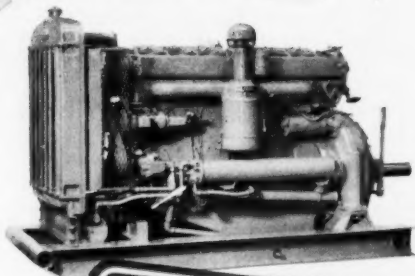
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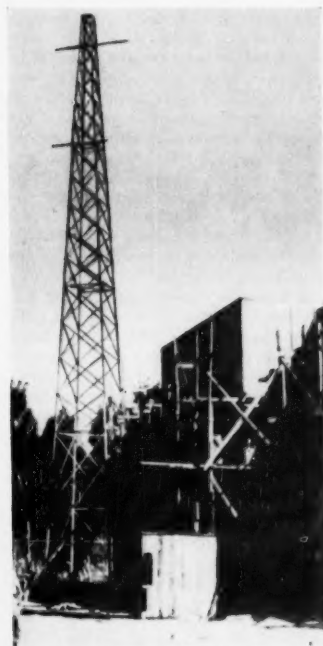
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Powerful Tangier Radio Station Under Way

• Voice of America Installation Being Built by New York Firms

One of the most powerful radio stations on the face of the globe is being erected in Tangier, North Africa, by two New York contracting firms, J. Rich Steers Inc. and Grove, Shepherd, Wilson & Kruege Inc. A.G.C., operating jointly as Steers-Grove. Work on the project which is being carried out under contract to the Navy's Bureau of Yards and Docks, began in mid-July of 1949, and is scheduled for completion in October of this year.

This station is being built for the State Department, whose engineers laid out the basic design and requirements for the installation. Detailed plans were drawn up by Alex D. Crosset and Associates of New York. Radio equipment was designed by the Paul Godley Company of Great Notch, New Jersey. Both firms are under contract to the Bureau of Yards and Docks, which was selected to supervise the work because of its long experience in construction overseas.



Powerful Radio Tower Rises in North Africa.

The station will relay "Voice of America" broadcasts originating in the United States to various areas of Europe and the Near East. The installation, therefore, will be equipped with receiving and transmitting equipment including four 100 Kw and two 50 Kw transmitters, and a variety of antenna systems with complete facilities for switching transmitter output into any one antenna.

Control of the entire system will be centered in one room in the transmitter building. An automatic device makes it possible for an operator to pre-select a given pattern of transmitter-antenna connections in anticipation of upcoming program changes, and activate it simultaneously by pressing a single button. In the event this remote control system becomes inoperable, manual control of each connection will be possible.

The installation will be operationally self-sufficient and will include an operating building, power plant, antenna arrays and auxiliary structures on each location. The buildings will be of masonry on structural steel frames, with reinforced concrete floors and roof slabs. Door and window frames will be of wood especially designed to prevent the entrance of dust. Ventilating and air-conditioning will be installed to control humidity and temperature.

All operations will be controlled from a glass-enclosed central control room located on the mezzanine floor of the operating building, from which all equipment will be visible.

Because the local public fire protection and water supply is inadequate, a complete fire control system will be installed. It will have extinguishers of the CO₂ type for interior use, fire-proof construction, and storage for inflammable liquids in underground vaults. Short-circuits are considered the primary fire hazard, and all lighting and power distribution will be installed in accordance with the U. S. National Electric Code of 1947.

Structural steel and electrical and mechanical equipment used in the project were shipped from this country. Local materials available in Tangier will be used in the construction of the plant.

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Army Puts Organized Reserve On a Ready-for-Action Basis

- Class A Status for Speedy Mobilization Urged;
- Plans Call for Facilities and Pay for Reserves

(This statement of the Reconstituted Organized Reserve Corps Program, prepared by the office of the Chief of Engineers, is particularly pertinent at this time)

THE NEWLY constituted plan for the Organized Reserve Corps recently announced by the Department of the Army is a definite program to transform the Organized Reserve into a "ready to go" component of our Armed Forces, in the event of a national emergency. Actually, the Reserve is being expanded and not being cut, for within this plan is a long-range comprehensive project for providing the Reserves with armories, training centers, and military equipment along with additional funds for drill and active duty training pay.

The plan includes an Active Reserve and an Inactive Reserve. The Active Reserve is divided into an Organized Reserve and a Volunteer Reserve. The former consists of officers and men in Reserve units destined for call on mobilization, plus some individuals required for other M-Day assignments. The Volunteer Reserve is to include individuals needed for further expansion of the Army in wartime. Personnel of the Active and Volunteer Reserves will be organized as follows:

1. Organized Reserve
 - a. T/O&E Units
 - b. Table of Distribution Units
 - c. ORC Control Groups (T/D mobilization designation)
 - d. ORC Control Groups (T/O&E mobilization designation)
2. Volunteer Reserve
 - a. ORC Control Groups (Volunteer Reserve)
 - b. ORC Control Groups (RA personnel)
 - c. ORC Training Units

The Inactive Reserve will be made up of those who cannot or do not want to take training and will also include the "Honorary" Reserve which will consist of veterans of long service who request such assignment. Both the Inactive and Honorary Reserves will not draw pay or gain credits for promotion or retirement, but they can be called on in an emergency.

Planning involved in carrying out this new program is best illustrated with a typical T/O&E unit and the standards required for its organization, activation, advancement, and retention in the Reserve Corps Troop Program.

The Department of the Army, after careful study, determines the number of T/O&E units by type that can be allocated to each area commander in keeping with mobilization needs as set up in the reconstituted Organized Reserve Corps Program. This program can be altered to meet changes in defense needs.

When the requirements for activation as prescribed in paragraph 4c AR 140-305, dated 27 January 1950, are met by a T/O&E unit, request for activation will be submitted by the area commander direct to Director of Organization and Training, General Staff, United States Army. Paragraph 4c of above AR sets up standards for organization, activation, and advancement and includes:

1. Availability of a qualified commander.
2. Is there logistical support? i.e., supplies, training equipment, storage and training facilities, office space.
3. Can minimum assigned strength requirements for activation and advancement be met?

Minimum Strength Assigned

Class C commences for a unit on the effective date of the general order activating the unit and covers a period of nine months or less. On this same date an order must be issued assigning a minimum of 60 percent of the total authorized officer strength less nurses. The average assigned strength must not fall below this minimum during Class C.

Class B commences for a unit on the effective date of the order advancing the unit to Class B. This date must not exceed nine months from date of Class C. The unit must have on this date a minimum of 70 percent of total authorized officer strength, less nurses, and with a cadre strength of enlisted personnel. Any unit having attained Class B will be inactivated if during three consecutive months its average

aggregate assigned strength is less than 70 percent of the minimum aggregate required for Class B. A waiver of an additional three months may be authorized by the area commander.

Class A is attained when a unit has assigned a minimum of 80 percent of authorized officer strength less nurses and 40 percent of authorized enlisted strength or Class B enlisted strength, whichever is greater. All T/O&E units except divisional units are encouraged to attain Class A. No penalty will be imposed for failure to do so.

Personnel made available as a result of inactivation of Organized Reserve Corps Troop Program units will be encouraged to accept assignment to another unit if one is available. If personnel cannot be assigned to another Troop Program unit, they will be reassigned to a unit within the Volunteer Reserve.

Construction Type Engineers

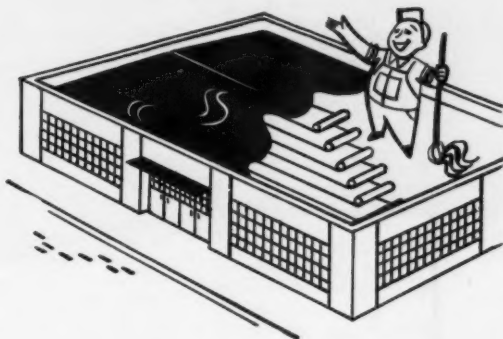
The Corps of Engineers Reserve was in 1945, like the entire Reserve Corps, planned for more troop units than could be manned without provision of Universal Military Training. The newly established Troop Basis for Engineer Units will provide for about half the number originally planned. The majority of the units dropped from the Old Troop Basis were never organized. Many are of the small detachment type units which are now not planned for activation prior to mobilization date. In general, the presently activated Engineer affiliated units, except for the detachment type units, will be retained in the Troop Basis for continued organization and training. Approximately 140 construction type engineer units not including Aviation type units are in the new Troop Program.

Budgetary limitations curtail immediate provision of a complete issue of necessary unit equipment for home training of Engineer units; however, the Department of the Army is working up a program to procure and issue mission type equipment to the extent possible from estimated funds to be made available. Heavy Engineer equipment and motor vehicles costs are too excessive to attempt full equipage for each unit. For a starter, the program provides for procurement and issuance of one each of all types of applicable T/O&E heavy equipment for each military district. Equipment made mobile may be moved from one training site to another so that the maximum number of units benefit from a limited amount of equipment.

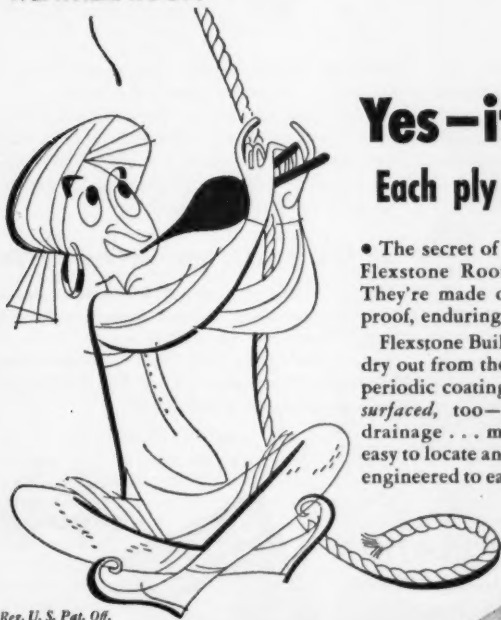
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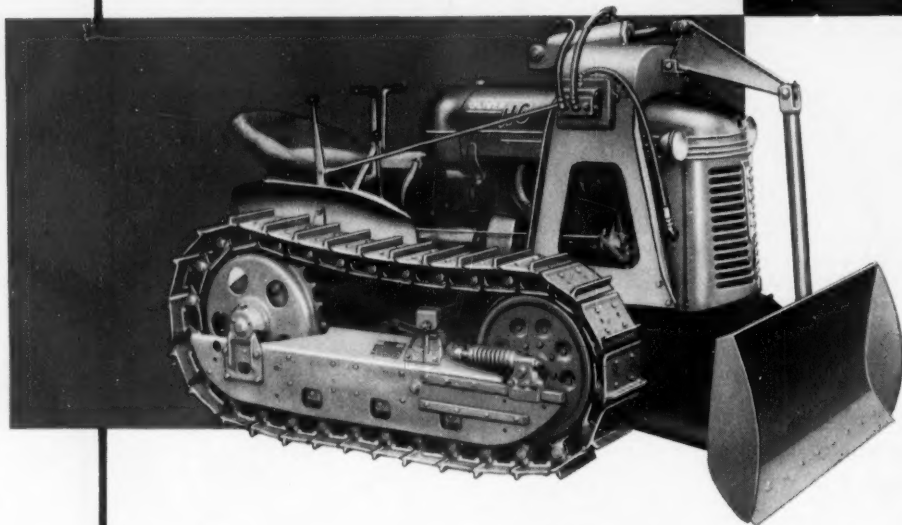
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To handle the extra load and strains of mounted equipment, the main frame, transmission case and drawbar bracket assembly have been materially strengthened. No loads are imposed on final drive spacer casting. Power take-off is heavier . . . stronger.

Front wheels have been increased 50% in

material thickness for longer life. Wheel flanges are on the outside of the track rails for better track alignment. New, heavier type track frame guide supports and buffer springs add strength to handle mounted equipment.

Final drive has been redesigned for greater physical strength and durability.

The NEW OLIVER "HG" Has More Power

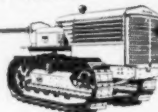
The new "HG" engine gives you more drawbar horsepower . . . extra power to handle bigger loads . . . extra efficiency.

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» TO BE LAUNCHED on a career as a craftsman in American industry after four torturous years in Nazi concentration camps is the good fortune of a young man in Denver—Manny Weizman, a native of Poland.

He is a carpenter apprentice, in training under a city-wide apprenticeship program, in which over 130 other apprentices are employed—quite a change from life in a concentration camp, where he was imprisoned in 1940 when he was 14 years old and held in one camp after another until he was 18. He is, it is believed, the first displaced person to be given the opportunity for a career in a skilled trade in this country through apprenticeship training.

He thinks that America, and especially Denver, is the "top of the world." He is learning to master the intricacies of the carpentry trade through on-the-job training, coupled with classroom instruction on subjects related to his practical experience.

In addition to his regular attendance in related instruction classes, he is attending classes in English and citizenship. Since getting his job as an apprentice he has taken out his first citizenship papers.

After his rescue from the concentration camp by United States troops, Manny was placed in a displaced persons camp in Stuttgart. He was brought to this country during the latter part of 1948 with his brother and mother, through the efforts of the United Services for New Americans, a branch of the Allied Jewish Council. Since then his sister, her husband and child have also come to this country. Manny and his brother, who is employed in a tailor shop in Denver, support their mother. The Weizman family was installed in Denver by a committee called the Family Agency, of which Manny's present employer, Abe Perlmutter (A.G.C.), a building contractor, is a member.

Learning by Doing

Manny was accepted for apprentice training in October, 1949. When employed, he was granted 18 months' credit on his four-year term of apprenticeship for experience he had gained as a helper in the carpentry trade in Denver before he obtained his job as an apprentice. Under the apprenticeship program he is learning by doing and earning while learning. He works with skilled workers on construction jobs which are in progress, and under the careful supervision of

1st DP to Become an Apprentice

• From Nazi Concentration Camp to Denver Career

By Reginald Perry, U. S. Bureau of Apprenticeship

foremen to whom he is assigned. He is also given related classroom instruction. His wages advance as he advances in his training.

The Denver program of apprenticeship in which he is being trained is typical of the more than 6,600 programs in operation today in the building trades, in cities and larger areas throughout the United States. It is directed by a joint employer-labor apprenticeship committee. This committee is composed of three members of the Denver General Contractors Association, the Colorado Building Chapter of The Associated General Contractors of America; three members of the local branch of the United Brotherhood of Carpenters and Joiners of America; and one representative of the local public school system. Serving as consultant on the committee is Edwin Mackey, a representative of the Bureau of Apprenticeship, U. S. Department of Labor, who assisted employers and labor in organiz-

ing the committee and setting up the program.

Work Experience

Apprentices are trained on the job in accordance with a pre-determined work schedule which is set forth in writing. This schedule is as follows:

CONCRETE WORK

- Build, line up and brace concrete forms.
- Construct forms for concrete stairways.
- Lay out building lines.

FRAMING

- Set girders and floor joists.
- Lay out and erect walls and partitions.
- Lay out and cut rafters.
- Build staging and scaffolds.
- Set plaster grounds.
- Lay out and cut stairhorses.
- Fire stoppage.
- Sub-flooring and sheathing.

EXTERIOR FINISH

- Lay wood and composition shingles.
- Cut and fit siding.
- Lay out window and door frames.
- Build cornice work.

INTERIOR FINISH

- Lay flooring.
- Cut and fit base and moldings and case openings.
- Set door jambs and frames.
- Fit and hang doors and windows.
- Fit hardware and fastenings.
- Lay out and build case work.
- Build stairs.
- Knowledge and use of steel square.

Every apprentice is thoroughly trained in each of the various work processes included in this schedule. They are trained in the simplest tasks first and the more difficult as they advance in their skills. To assure each of them adequate experience in every kind of work performed by all-round skilled workers, the apprenticeship committee transfers an apprentice, when necessary, from one employer to another and from one construction job to another.

Supplementing the work on the job is classroom instruction, which is pro-



Manny Weizman on the job.

vided by the local public vocational school. Each apprentice spends at least four hours a week in the classroom, where he is taught the theoretical aspects of his work—subjects which cannot be readily learned on the job—and may also have the advantage of shop work. The curriculum includes blue print reading, layout work, draftsmanship, mathematics, estimating amounts of building materials, safety factors in scaffolding and handling heavy objects, general safety measures in construction work, care and up-keep of tools, procedure in scheduling the work on construction jobs, as well as subjects, such as workmen's compensation laws and regulations, and employer-labor relations.

Tests and Record Keeping

Applicants for apprentice training are carefully selected. Each of them is interviewed by the carpentry apprenticeship committee which studies his previous work experience and educational background. Before he is accepted for training he must pass a written test. Those accepted sign an apprenticeship agreement which is also signed and approved by a representative of the committee, of the carpenters union and of the State Board for Vocational Education.

During his training the work of every apprentice is closely watched, his workmanship inspected, his progress checked and meticulously recorded. Before each period of advancement, or more often when advisable, the committee examines the record of an apprentice both on the job and in the classroom. When necessary, the committee may call an apprentice before it in order to check his progress.

At the end of his training every apprentice is awarded a certificate of completion of apprenticeship. This certificate bears the same significance to an apprentice as does the diploma to graduates of schools and universities.

Veteran Students Increase

Although the number of veteran on-the-job trainees has declined nearly 50 per cent, veteran enrollments in vocational schools for courses in the construction trades have tripled in the last three years, according to a recent survey of the Veterans Administration.

Enrollments in construction trades

Conferences Stress Apprenticeship Needs

• Meetings Held by Southern States, Eastern Seaboard

» THE SECOND annual Southern States Apprenticeship Conference, attended by representatives from the ranks of management, labor, and state and federal governments, was held recently at Miami Beach. "Opportunity for the youth of the south through apprenticeship training" was the conference theme.

The Associated General Contractors of America was represented by James D. Marshall, assistant managing director, and Welton A. Snow, manager of the Building Contractors' Division and secretary of the A.G.C. Apprenticeship Committee.

Responsibility of Labor

Speaking before the Building Trades Section, Mr. Snow emphasized that the general contractors' public obligation could not be efficiently fulfilled unless an adequate number of skilled craftsmen was available. This responsibility rests more with labor than it does with management, because so long as the employers do hire union help, it is the union's duty to provide an adequate supply of skilled workers, he said. The best assurance of a successful apprentice training program is the local joint apprenticeship committee in which management and labor cooperate, he added.

In conclusion, Mr. Snow asserted that the apprenticeship program must continue on a long range basis, that industry must make every effort to provide apprentices on-the-job training, and that the program must continue unabated if the construction industry is to fulfill the nation's needs.

Assistant Secretary of Labor Ralph Wright stated that apprenticeship is a most vital necessity for it is a means by which the training of workers can keep in step with the increasing complexity of machines and industrial techniques. This means that training methods must be constantly improved, he said.

Mr. Wright quoted a recent statement of Labor Secretary Tobin in which he said that apprenticeship programs are the finest example of labor-management relations. He presented to Frank J. Rooney, president, South Florida Chapter, A.G.C., a certificate of appointment to the National Joint Apprenticeship Committee.

Delegates attending the conference came from Louisiana, Tennessee, Arkansas, Mississippi, Georgia, Oklahoma, Alabama, Texas, North and South Carolina and Florida. These 11 states have over 27,000 apprentices who will enter the labor force in the next few years.

Poland Springs Conference

Mr. Snow also attended the Sixth Annual Apprenticeship Conference, Eastern Seaboard, at Poland Springs, Maine, June 7-10. Industry and union representatives from both the U. S. and Canada attended. The importance of improving the apprenticeship program and the maintaining of a constant flow of skilled workers for industry was the keynote of the meeting.

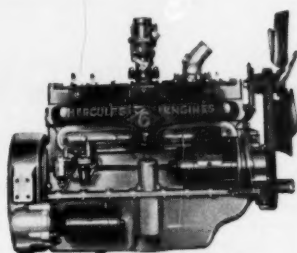
Next year Canada will host the first International Apprenticeship Conference at Quebec.

courses totaled 31,300 in 1949, 17,620 in 1948, and 10,130 in 1947. Courses in bricklaying have been the most popular. Other courses having substantial enrollments are tile setting, stone masonry, paper hanging, cement and concrete finishing, plumbing and carpentry.

The survey also reveals a decline in veteran enrollments for courses in civil engineering. Though a great number of engineers of all types have been graduated since the GI bill went into effect, observers from both government and industry believe that the present decline in enrollments will pro-

duce a shortage of engineers in about five years.

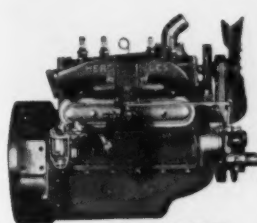
The Federal Committee on Apprenticeship, which recommends operating policy, principles and standards for the Bureau of Apprenticeship, reports that total registration of apprentices in the joint union-management program is declining. As of the end of 1949, the Bureau of Apprenticeship records show a total of 45,062 apprenticeship programs of which 3,289 involve the construction industry. Registrations for the same period were 231,310 as compared to 233,302 for 1948. Peak registration between 1948 and 1949 was 238,553.



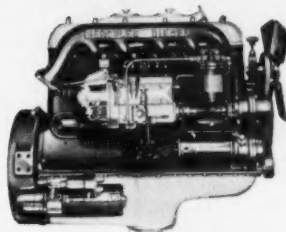
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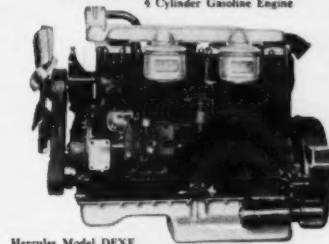
Hercules Model IX
4 Cylinder Gasoline Engine



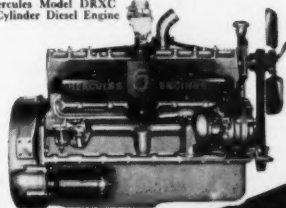
Hercules Model DRXC
6 Cylinder Diesel Engine



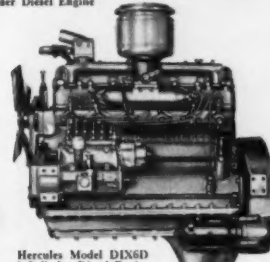
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Outstanding performance and economy are written into the records of thousands of successful Hercules gasoline and diesel engine applications where high speed, heavy duty service is important. This is offered as proof of Hercules' acceptance . . . Hercules' dependability. As a power user, it will pay you to draw upon the priceless experience and vast engine building facilities of Hercules in planning future power requirements.

HERCULES ENGINES 3 TO 500 H. P.

GAS AND GASOLINE ENGINES				DIESEL ENGINES			
Model	Bore and Stroke	Co. In. Diapl.		Model	Bore and Stroke Inches	Piston Diapl. Co. In.	
Two Cylinder				Two Cylinder			
BXB	2 1/2" x 3"	39		DIXC	4 1/2" x 4 1/2"	113.1	
NXA	3" x 4"	56.5		DIXD	4 1/2" x 4 1/2"	127.5	
NXB	3 1/4" x 4"	66.3		Four Cylinder			
Four Cylinder				DIX4B	3 1/2" x 4"	133	
ZXA	2 1/2" x 3"	59		DIX4D	3 1/2" x 4"	166	
ZXB	2 5/8" x 3"	65		DOOB	3 1/2" x 4 1/2"	199.8	
IXA	3" x 4"	113		DOOC	4" x 4 1/2"	226.2	
IXB	3 1/4" x 4"	133		DOOD	4 1/4" x 4 1/2"	235	
JX4E	3 1/2" x 4 1/4"	164		Six Cylinder			
JX4C	3 5/8" x 4 1/4"	188		DIX6D	3 5/8" x 4"	249	
JX4D	4" x 4 1/4"	214		DIXB	3 1/2" x 4 1/2"	260	
Six Cylinder				DJXC	3 1/2" x 4 1/2"	348	
GXA	3 1/8" x 4 1/8"	190		DJXH	3 1/2" x 4 1/2"	298	
QXB	3 1/4" x 4 1/8"	205		DJXHF	3 1/2" x 4 1/2"	299	
QXC	3 1/8" x 4 1/8"	221		DWXC	4" x 4 1/2"	358	
QXLD	3 7/16" x 4 1/4"	236.7		DWXD	4 1/4" x 4 1/4"	404	
JXE	3 1/2" x 4 1/4"	245		DWXL	4 1/4" x 5"	426	
JXB	3 3/8" x 4 1/4"	263		DWXLDF	4 1/4" x 5"	426	
JXC	3 3/4" x 4 1/4"	282		DRXB	4 1/8" x 5 1/4"	474	
JXD	4" x 4 1/2"	329		DRXC	4 1/8" x 5 1/4"	529	
JXLD	4" x 4 1/2"	339		DFXB	5" x 6"	707	
WXC-3	4 1/4" x 4 1/2"	383		DFXC	5 1/4" x 6"	779	
WXL	4" x 4 3/8"	358		DFXD	5 1/4" x 6"	855	
WXL-3	4 1/4" x 4 3/8"	404		DFXE	5 1/4" x 6"	895	
TDXB	4 3/8" x 5 1/4"	474		DFXH	5 1/4" x 6"	935	
RXB	4 1/2" x 5 1/4"	501		DFXHF	5 1/4" x 6"	935	
RXC	4 3/8" x 5 1/4"	529		Eight Cylinder			
RXLC	4 5/8" x 5 1/4"	529		DNX V-8B	5 1/2" x 6"	1247	
RXLD	4 3/4" x 5 1/4"	558		DNX V-8C	6 1/4" x 6"	1348	
RXLDH	4 3/4" x 5 1/4"	558		DNX V-8D	6 1/4" x 6"	1468	
HXB	5" x 6"	707		DNX V-8DS	6 1/4" x 6"	1468	
HXC	5 1/4" x 6"	779					
HXD	5 1/2" x 6"	855					
HXE	5 3/4" x 6"	935					

*Hercules POWER UNITS are available, equipped with any of the above engines.

Unlimited power applications are reflected in the 33 gas, gasoline engines and the 30 diesel engines which are available in the 1950 Hercules line.

HERCULES MOTORS CORPORATION • Canton, Ohio, U. S. A.



RUD-O-MATIC MAGNET REEL-TAGLINE COMBINATION

Rud-o-Matic Combination Magnet Reel-Tagline saves costly electric cable on overhead and boom crane magnet pick-up jobs. Steel tagline cable takes the load. Protective slack is maintained on electric cable. Models to fit your need.

**Boom Crane or
Overhead Crane
Clam Shell Bucket
or Magnet Pick-Up**

**RUD-O-MATIC
TAGLINE CONTROL**
is your
answer!

RUD-O-MATIC TAGLINE

holds the bucket steady at any angle of the boom. Heavy duty torsion coil spring assures constant tension at all times, at any length of cable run-out. Easily installed. Interchangeable for use on equipment of similar size. 8 models for various bucket sizes.



McCAFFREY-RUBDOCK Tagline CORP.
2131 EAST 23rd STREET - LOS ANGELES, CALIFORNIA

APPRENTICE TRAINING

A.G.C. Units Participate in Graduations

• Ceremonies in Texas, Massachusetts, Wisconsin, and Indiana

» **CERTIFICATES** for completing 6,000 to 10,000 hours of training were given to 116 apprentices in the building trades promoting them to the rank of journeymen, at a recent Dallas apprentice completion ceremony and testimonial banquet. Chairman and toastmaster were Charles S. Munn and William L. Hickey, both of the Dallas Chapter, A.G.C.

John B. Hynes, mayor of Boston, Massachusetts, was on hand to speak to the graduating apprentices of the Boston area on June 5, when 104 bricklayers, stonemasons and carpenters received certificates for completing courses under the auspices of the joint apprenticeship committee. The committee is maintained by the A.G.C. of Massachusetts and the Bricklayers, Masons, and Plasterers International Union.

Journeyman certificates were given to 52 apprentices at the Wisconsin

apprenticeship testimonial banquet held June 6, at Janesville. Welton A. Snow of the national A.G.C. staff addressed the graduates. Other speakers were Ray W. Kivell, president, Wisconsin Chapter, A.G.C., George A. Haberman, president, Wisconsin State Federation of Labor, and Henry Traxler, city manager of Janesville.

The A. F. of L. craft unions and the contractors associations of the building industry of Evansville, Indiana presented completion certificates to 47 apprentices on June 21.

Principal speakers were Welton A. Snow, Henry F. Schrieker, governor of Indiana, and Winfield Denton, United States representative. Ed F. Diekmann, mayor of Evansville, gave the welcome address.

The graduates were composed of sheet metal workers, painters, carpenters, plumbers and steam fitters, and electricians.



Memphis Graduates 24 Brickmasons

Twenty-four bricklayer apprentices were graduated recently in Memphis, 11 of whom attended the brickmasons' accelerated apprentice school conducted in 1947 by the Memphis Chapter, A.G.C. Mayor Watkins Overton was among speakers.

Pictured above left to right, are

Mayor Overton; John Moore, Jr., youngest brickmason in Memphis at 19; Robert Clower, representing the Bureau of Apprenticeship, Department of Labor, who presented the certificates; and George A. Fulghum, A.G.C. chairman of the Joint Apprenticeship Committee.

DO **ALL** YOUR TRENCHING WORK THE CLEVELAND WAY

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Contractors call CLEVELANDS the "workingest" machines they ever saw. The correct wheel-type design, constantly refined through more than 25 years of close cooperation with owners and operators, means each CLEVELAND handles more different kinds of work. This greater adaptability cuts your machine investment, and together with CLEVELANDS rugged unit-type low-maintenance construction adds up to more productive time per machine. CLEVELANDS eat up the toughest going you can throw at them—give you a year 'round digging season—give you dependable higher yardage under any and all conditions. Trench the CLEVELAND way and you can rely on steady low-cost schedule-beating performance. Get the full story from your local distributor or write direct.



THE CLEVELAND TRENCHER CO.
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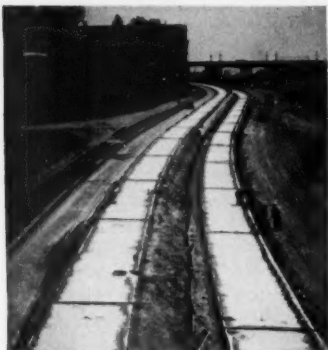
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MARKETS

\$262,978,391 in Public Works Approved for Planning Loans

- \$7,618,760 Advanced on 400 Projects
- Listed as of May 24, Date of Transfer

» SOME 400 public works projects calling for a total of \$262,978,391, had been approved for interest-free

Underlying Demand Strong, F. W. Dodge Head Believes

Underlying factors in the demand for new construction are "very strong," although the present government-supported construction boom may be expected to taper off at some future time.

This was the analysis of the factors relating to markets for the construction industry by Thomas S. Holden, president of the F. W. Dodge Corporation, writing in the June issue of *Architectural Record*. He stated:

"In spite of record dollar volumes of construction in 1948 and 1949, total new construction investment in those years was low relative to national income, approximately nine per cent each year. In 1925, 1926, and 1927, years of high prosperity and great economic expansion, new construction investment ran to 15 per cent of the national income."

Demand for new construction, he pointed out, derives from factors tending toward economic growth, and these factors are present in the American economy "perhaps in greater measure than ever before."

After analyzing various growth factors, Mr. Holden stated that an important and essential factor was missing, namely "a set of over-all governmental policies which will command the hearty support of a clear majority of the American people. In all previous eras of sustained and rapid expansion there has been a far greater degree of unanimity than now exists."

In his opinion, government stimulation of the construction boom is unnecessary and is currently being overdone. He points out that a government-supported boom is apt to run its course, just like any other kind of a boom. In particular he sees the possibility of housing surpluses, if current record-breaking activity continues much longer.

advances for plan preparation when the Community Facilities Service was transferred on May 24 to the Housing and Home Finance Agency. Advances made on these projects at the time of transfer totalled \$7,618,760. Some 1,100 applications for such assistance were under review in the C.F.S. offices. Other applications are at a rate of 50 to 100 a week.

Market in Revoltments

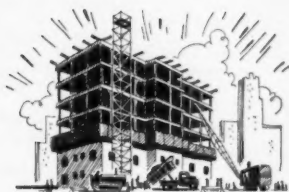
—Page 56

With the consolidation in H.H.F.A. under Reorganization Plan No. 17, most of the C.F.S. personnel experienced in the public works field moved over, headed by Commissioner Pere F. Seward. Some rules and procedures are being worked out, but no policy changes in the administration of the Second Advance Planning Program for non-federal public works are expected immediately.

As in the First Advance Planning Program which expired on June 30, 1947, most of the planning assistance is requested for sewers and sewage work, with schools a close second.

The list on May 24, 1950 stood as follows:

	Estimated Total Cost	Planning Advance
ALASKA		
Juneau—grammar school.	\$525,000	\$20,000
ALABAMA		
Enterprise—pump sta. . .	237,510	9,760
Florence—gas system. . .	1,134,322	28,000
Mobile—dock facilities. . .	2,565,620	30,000
Mobile—handling plant. . .	730,540	25,000
ARIZONA		
Kingman—converted gym. . .	336,500	11,880
Mohave Co.—bus shops. . .	112,560	3,840
Maricopa Co.—school. . .	197,000	7,500
Maricopa Co.—classrooms. . .	144,100	5,440
Maricopa Co.—auditorium. . .	88,970	3,360
Pima Co.—field house. . .	106,970	3,980
Pima Co.—classroom bldg. . .	177,047	6,600
Flagstaff—union bldg. . .	450,000	16,000
Tempe—gym and pool. . .	700,000	26,000
Tucson—Univ. of Arizona science building. . .	915,400	33,600
Casa Grande—extensions sewers. . .	21,000	1,000



"Good idea, Mr. Garber!"

That was the quick response from general contractors all across the nation back in 1918 when Daniel Garber suggested they could serve the public better—and thus benefit themselves—by working *together* instead of individually. Ninety-seven of them met and formed the Associated General Contractors of America, electing Mr. Garber the first president.

Today more than 5,000 general con-

tractors—each possessing the A. G. C. qualifications of skill, integrity and responsibility—are helping one another to give the investing public more for its money in every kind of construction.

To every contractor who displays the A. G. C. emblem, a well-deserved salute from Marquette for your honorable and respected position in the American construction industry.

MARQUETTE CEMENT MANUFACTURING COMPANY
CHICAGO • ST. LOUIS • MEMPHIS



PORTLAND • HIGH EARLY STRENGTH • AIR ENTRAINING • MASONRY

Ramset Fastening System

Cost comparison sheet for *General Contractors Inc.*
(Name of job)

This form is provided for estimating costs on any job with RAMSET FASTENING SYSTEM as compared with present method, and to indicate possible savings with RAMSET method. In estimating (fastening time with present system, use actual time of workmen doing the work, including making fastener hole, inserting plug and attaching

fastener. Use same method for RAMSET, which will ordinarily be less because the fastener itself is set in one operation.

Materials cost for present method should include plugs and fasteners, and for RAMSET, should include both fastening charge and the fastener itself.

	Estimated Present Method	Actual Ramset System
NO. OF FASTENINGS <i>7186</i>	<i>2371.4 HOURS</i>	<i>484.3 HOURS</i>
TIME REQUIRED	<i>\$ 4,742.80</i>	<i>\$ 968.60</i>
COST AT \$ <i>2.00</i> PER HOUR	<i>718.60</i>	<i>1,651.68</i>
COST OF MATERIALS	<i>\$ 5,461.40</i>	<i>\$ 2,620.28</i>
TOTAL COST		<i>\$ 2,841.12</i>
COST SAVED WITH RAMSET SYSTEM		<i>52%</i>
SAVED PER FASTENING WITH RAMSET SYSTEM		<i>\$.39</i>
TIME SAVED WITH RAMSET SYSTEM		<i>1,887.1 HOURS</i>
		<i>79.5%</i>

\$2,841.00 SAVED
WITH Ramset
FASTENING SYSTEM

FOUR MINUTES per fastening (total time on job) with RAMSET SYSTEM instead of NINETEEN MINUTES with his old method saved this contractor \$2,841.00 on one steel fastening job. Instead of slow, laborious, costly drilling—just load the self-powered, light, RAMSET FASTENING TOOL. Then—READY! RAM! SET! Quick, easy, economical—and tight. Actual fastening time, less than one minute per fastener!

Compare your fastening costs into steel, concrete and other hard materials. See how much time and money you can save with the simple, lightning-fast RAMSET SYSTEM. With 65 sizes and types of drive pins and threaded studs, you can do almost any kind of construction fastening job.

Your local RAMSET Specialist will help you cut costs and show you how to "RAMSET" your way into more profitable business. Write or wire us collect for name of nearest representative.

Stemco Corporation • Cleveland 16, Ohio

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Ramset System

**SAVES TIME . . . CUTS COST
ON JOBS LIKE THESE:**

Fastening—

- Wood sills to concrete foundations or walls.
- Wood nailing strips.
- Wire mesh for gunite.
- Metal or composition roofs or walls.
- Guard fences or scaffolds.
- Framework, brackets and supports to concrete or steel.

MARKETS

	Estimated Total Cost	Planning Advance
Winslow—new sewer lines	26,359	1,160
Casa Grande—road bldg.	340,500	18,200
Winslow—paving, curbs, etc.	49,999	2,300

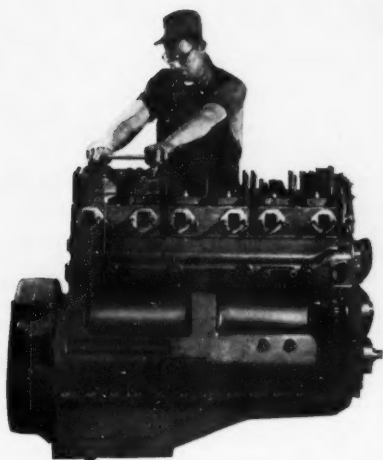
ARKANSAS

Gurden—new sewer lines	113,582	4,680
Gurden—well, water mains	72,500	2,940

CALIFORNIA

Beaumont—shop, music rm.	82,964	4,500
Coronado—elem. school	206,828	9,520
Coronado—elem. sch. adds.	180,454	9,540
Coronado—high sch. adds.	547,142	29,420
King City—gym, etc. (L. A. Co. 16 projects)	641,540	31,240
Downey—elem. sch.		
18-rms.	541,344	27,320
Downey—elem. sch.		
5-rms.	190,626	7,920
Downey—elem. sch. adds.	147,392	7,740
Downey—6 classroom adds.	212,865	11,300
Duarte—elem. sch.		
13-rms.	448,514	19,680
Duarte—elem. sch. cafeteria	388,973	15,540
Manhattan Beach—high sch.	324,000	18,000
Manhattan Beach—cafeteria	129,600	7,200
Manhattan Beach—high school	289,440	16,080
Palmdale—elem. sch. adds.	114,950	4,800
Pice—22-rm. elem. sch.	579,289	32,360
Pice—4-rm. elem. sch.	132,466	7,180
Puente—elem. sch. cafeteria	311,042	14,460
Rivera—16-rm. elem. sch.	360,670	20,140
West Covina—8-rm. elem. sch.	277,623	12,340
West Covina—6-rm. elem. sch.	351,824	15,860
(end L. A. County)		
Monterey—elem. sch. kindergarten	389,000	18,000
Monterey—elem. sch. adds, library	225,048	10,820
Pismo Beach—sch. kindergarten, shop	540,942	31,760
Santa Margarita—7-rm. elem. sch.	216,022	11,960
Stockton—7-rm. elem. sch. adds.	146,755	6,380
Stockton—8-rm. add. 2 kindergarten	225,177	11,840
Vallejo—jun. high sch. and elem. sch. adds.	989,410	41,340
Madera—sch. lib. and cafe	768,758	39,540
Madera—elem. sch. library	390,074	19,800
Madera—elem. sch. kindergarten	273,212	13,340
San Diego Co. (4 projects)		
San Diego Co.—24-rm. elem. sch.	540,200	26,400
San Diego Co.—18-rm. elem. sch.	424,012	19,800
San Diego Co.—12-rm. elem. sch.	287,250	13,200
San Diego Co.—24-rm. elem. sch.	536,800	26,400
Pomona—Mt. St. Antonio Jr. College		

Cummins® Custom-built Diesels



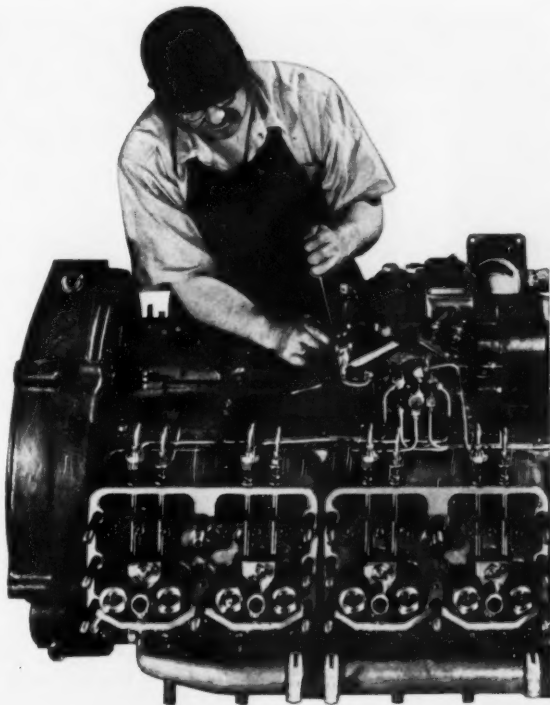
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once
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Twice*

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Every lightweight high-speed Cummins Diesel is actually built *twice*. After initial assembly, each engine is run-in on the test block. Then it is torn down and carefully re-inspected — after that it is re-assembled and tested *again* to assure *peak performance*. And that is only *one* example of the extra care, the precision-workmanship... that goes into every Cummins custom-made engine.

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logging yarders and loaders • drilling rigs • centrifugal pumps
generator sets and power units • work boats and pleasure craft.

Contractor trims \$19,000

ON A SINGLE BID

The successful bidder on more than 22 miles of highway sub-drainage for an eastern state figured the job two ways. First, he bid the job with short section, rigid pipe. Then by figuring an alternate bid using Armco Corrugated Metal Pipe he was able to reduce his original estimate more than \$19,000.

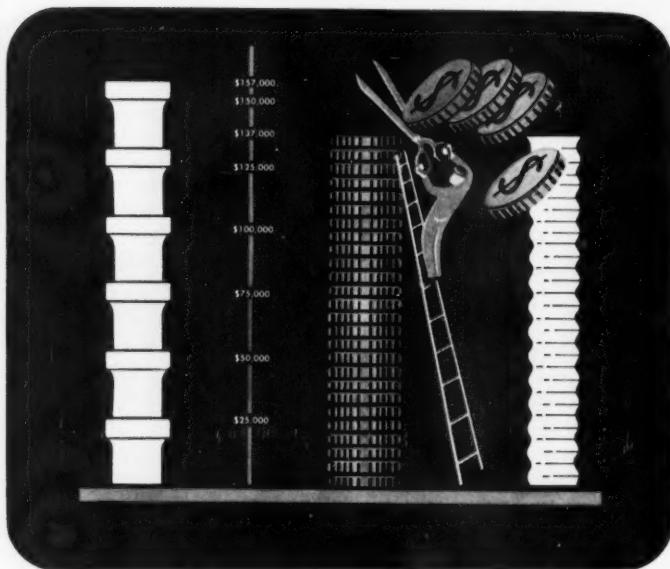
No wonder more and more experienced contractors are being awarded desirable contracts with bids based on Armco Corrugated Metal Pipe. Figured on an *installed* basis, this pipe saves money in many ways.

Although amply strong, Armco Pipe often weighs only one-tenth as much as more massive types. This means low handling and hauling costs. Job costs go down because unskilled labor quickly makes the installation. There is

no breakage, no curing, no delay.

Individual lengths of Armco Pipe are supplied in any length that can be hauled or handled. No large and expensive equipment is needed for installation. A few men with a rope sling or a small A-frame can handle the largest structure. Connections are made with simple band couplers and there are no bells or massive joints requiring hand excavation.

Bid low with adequate profit by figuring that next job with Armco Corrugated Metal Pipe. You will find it ideal for highway, railway, airport and municipal installations. Write for complete data. Armco Drainage & Metal Products, Inc., 2280 Curtis Street, Middletown, Ohio. Subsidiary of Armco Steel Corporation.



ARMCO DRAINAGE STRUCTURES



MARKETS

	Estimated Total Cost	Planning Advance
Pomona—homemaking building	97,900	4,000
Pomona—science building	119,500	5,000
San Marcos—So. San Diego Jun. College		
San Marcos—6 buildings	750,000	31,760
Costa Mesa—sewage project	264,247	12,000
Porterville—treatment plant	495,000	15,000
St. Helena—treatment plant	90,230	4,700
Auburn—road widening (2)	49,330	1,240
Culver City—st. widening	67,700	4,220
Oakland—RR underpass	540,124	20,000
San Diego—2 bridges	2,286,000	57,500
Willits—paving 14 sts.	262,080	19,600
Stockton—public library	1,178,000	57,000
Ventura—city hall	136,200	7,200

COLORADO

Evergreen—treatment plant	162,900	7,100
Los Animos—treatment plant	193,000	8,700
Adams County—water project	148,886	4,500

CONNECTICUT

Groton—treatment plant	395,230	22,000
Portland—treatment plant	107,548	6,200
Hartford—garbage disposal	1,000,000	45,000

DELAWARE

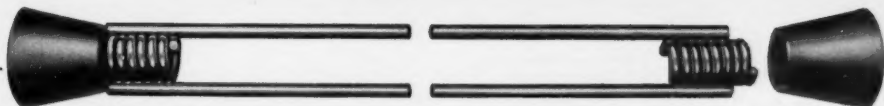
New Castle Co.—4 projects—sewers		
(1) 35,000 ft. pipe	194,000	10,000
(2) 16,400 ft. pipe	300,000	10,000
(3) 27,000 ft. pipe	177,100	5,000
(4) 19,000 ft. pipe	154,500	7,000

FLORIDA

Gainesville—University of Florida		
Gainesville—Colleges—nursing & medicine	11,160,000	10,000
Apalachicola—sewer add.	83,000	4,460
DeFuniak Sp'gs—(2 projects) treatment pl. new lines	280,000	12,140
Gainesville—treatment pl.	1,368,300	37,750
Orlando—83,500 ft. pipe	547,300	26,500
Hialeah—new water lines	395,000	17,500
DeFuniak Sp'gs—drainage	136,750	7,500
St. Augustine—county jail	138,300	5,200
Sarasota Co.—state park	215,000	5,000
Duval Co.—state park imp.	975,000	15,000
Jacksonville—boul. paving	2,435,100	30,000

GEORGIA

Walker County		
Cedar Grove—elem. sch. adds	61,161	2,580
LaFayette—6-rm. high sch.	69,442	2,940
LaFayette—assembly room	146,100	6,200
LaFayette—shops-repair	53,477	2,200
Chickamauga—Osborn District		



CONE-FAST COIL TIES

Who is **LOW BIDDER?**

• The contractor who recognizes that intelligent analysis of concrete form design is becoming more important is in a better competitive position. Form work for concrete presents one of the greater opportunities for savings in both material and labor. A careful analysis of the concrete structure to determine the re-use of form panels that can be handled to position, set, aligned, and later removed, will reduce effort and motion to a minimum.

• Form construction that is highly efficient requires closer attention also to the selection of form ties and auxiliary aids. SUPERIOR'S complete line of all types and capacities of form ties and clamps and other accessories offers the widest range of selection.

• SUPERIOR'S CONE-FAST COIL TIE is an outstanding form tie which provides all of the required features. The extended coil ends for securing cones (not threaded) eliminate the man inside the forms in thick walls and are essential for setting panels for thin walls. The ends of the tie are kept the required distance back of the wall face.

• The bolt holder illustrated in use on the panel at the right keeps the bolts and washers on the panel when moved and in position to engage the Coil Ties assembled to the panel first erected. This engagement of the bolts is easy because of the large square opening in the cone.

• Cone-Fast (and Standard) Coil Ties are made for bolts $\frac{1}{2}$ " to $1\frac{1}{4}$ " in diameter with safe working loads of from 5000 pounds to 36,000 pounds. Working parts—cones, bolts, and washers—are returnable for credit.



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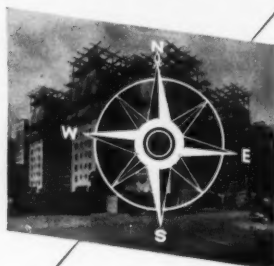
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CONCRETE SURFACERS



"Berg" Concrete Surfacers are extensively used for surfacing and finishing applications on all types of concrete construction.

Various interchangeable Heads and Attachments are available for grinding, wire brushing, sanding and polishing applications.

**THE CONCRETE
SURFACING MACHINERY CO.**
CINCINNATI 32, OHIO

MARKETS

	Estimated Total Cost	Planning Advance			
Chickamauga—school-gym	31,345	1,320	Odebolt—treatment plant	49,256	2,200
Rock Springs—elem. sch.	88,219	3,740	Ottumwa—sewer system	2,124,480	50,000
Atlanta—Ga. Tech. library	1,730,000	60,000	Shenandoah—storm sewer	114,051	5,280
LaGrange—sewer system	1,499,000	38,000	Vinton—sewer mains	179,163	8,080
Savannah—sewer system	1,997,400	65,380	Imogene—water mains	22,914	840
			Vinton—road widening	63,733	2,320
			Cedar Point—town hall	45,700	2,100
			Vinton—street lighting	26,016	1,180
			Muscatine—hospital	1,068,250	45,000

HAWAII

Honolulu—University of Hawaii		
Honolulu—field house	686,300	33,000
Honolulu—dormitory	223,200	10,000
Kaneohe—TB ward	358,000	15,000

IDAHO

Blackfoot—sch.	643,600	24,400
Moscow—sch.	392,500	14,620
Pocatello—sch.	690,000	24,000
Blackfoot—sewers	251,000	8,800
Nampa—sewers	500,000	12,000
Kimberly—water mains	40,000	1,200
Alameda—paving	142,150	4,400

ILLINOIS

Capron—high sch.	629,802	26,450
Flossmore—sch. add.	240,000	10,000
Hollywood—auditorium	236,360	9,260
Peoria Co.—high sch.	1,049,000	2,900
Riverside—sch.	503,500	21,360
Savanna—additions	146,761	5,620
University of Illinois:		
Urbana—biology bldg.	5,000,000	75,000
Chicago—pharmacy bldg.	6,000,000	152,000
Allerton—sewers	213,000	8,000
Arlington Hts.—sewer	756,000	24,000
Bridgeport—sewers	238,409	8,780
Decatur—sewers	3,000,000	85,200
Elburn—new sewer system	157,611	5,000
Kankakee—sewers	311,100	13,280
Mt. Carmel—treatment plant	503,300	17,400
Mt. Pulaski—treatment plant	225,000	9,000
Ottawa—sewer system	2,149,200	74,360
Shabbona—treatment plant	72,500	3,000
Jerseyville—water project	540,000	19,660
Evanston—grade separation	346,000	14,500
Kankakee—incinerator	395,800	13,600
Riverside—city hall add.	100,000	4,900
North Chicago—beach bldg.	295,971	11,000

INDIANA

Indiana Uni. Medical Center		
Indianapolis—2 buildings	1,141,547	38,960
Vincennes University		
Vincennes—library-auditorium	475,000	18,500
Evansville—sewer system	3,500,000	92,000
Sullivan—additional sewer	259,000	8,700
Arcadia—water mains	65,100	2,400

IOWA

Ames—sch.-auditorium	522,000	20,240
Farmington—gymnasium	53,700	2,240
Afton—sewer project	26,294	1,200
Eldora—sewer additions	66,150	2,400
New London—extensions-sewer	113,601	3,500

KANSAS

Arlington—new sewer lines	104,803	2,000
Bushton—new sewer lines	92,300	3,020
Cunningham—sewer system	95,000	3,500
Hughston—sewer additions	33,200	1,200
LaCrosse—storm sewers	92,960	3,800
Leavenworth—sewer plant	849,460	31,640
Paola—water & sewer lines	499,768	25,960
Pittsburg—sewer plant	954,000	35,000
Pittsburg—water tanks (2)	440,000	18,000
Pittsburg—city hall	274,000	12,200
Pittsburg—fire station	94,000	4,000

KENTUCKY

Hardinsburg—sewers	37,877	1,320
Somerset—sewer extensions	275,237	10,000
Hardinsburg—water project	50,229	1,780

MARYLAND

University of Maryland—College Park—gen. library	2,000,000	75,000
College Park—staff bldg.	325,000	11,760
College Park—girls' gym	200,000	7,480
Princess Anne—eng. m-a bldg.	450,000	14,000
Princess Anne—chem.-phys. bldg.	450,000	14,000
Princess Anne—gen. library	375,000	13,000
Princess Anne—home econ. bldg.	300,000	10,000
Princess Anne—gymnasium	275,000	10,300
Princess Anne—warehouse	50,000	1,860
Baltimore—gen. library	400,000	14,060
Salisbury—pump sta.	474,000	18,400
Salisbury—sewer plant	1,080,000	38,940
St. Michaels—sewer system	234,236	9,000

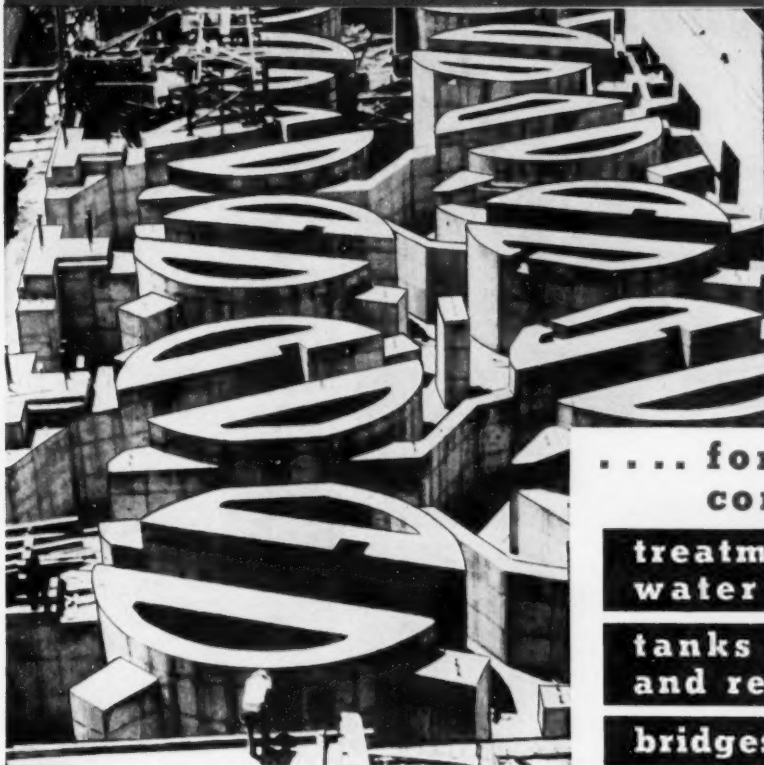
MASSACHUSETTS

South Boston—port terminals	1,200,000	44,000
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MICHIGAN

University of Michigan		
Ann Arbor—med. sc. bldg.	6,000,000	215,000
Michigan State College		
Lansing—library additions	3,025,000	90,000
Wayne University		
Detroit—science hall adds	1,600,000	56,000
Bay City—3 sewer projects	1,911,300	57,100
Grand Rapids—sewers	1,602,500	67,500
Eau Claire—water system	103,400	3,600
Escanaba—reservoir	700,000	22,120

Economy STEEL FORMS...



.... for concrete
construction

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tanks - circular
and rectangular

bridges • culverts

box tunnels

buildings

special forms

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Chicago, Illinois; Omaha, Nebraska; Denver, Colorado; San Francisco, California; Phoenix, Arizona

**Install
Doors
that
CUT
Costs
Year
after
Year!**



KINNEAR Metal Rolling Doors

Reducing door costs is not the only advantage you provide when you install Kinnear Rolling Doors. You also help cut other plant costs, in many ways.

Coiling upward action permits full use of all floor and wall space around openings, at all times. Materials can be stacked within an inch or two of the door, inside or outside—or on both sides—without impeding its action. This promotes more efficient handling of door traffic, deliveries, and shipments.

The smooth, easy action of Kinnear Rolling Doors saves time and labor—and no other type of door is so well adapted to the extra advantages of motor operation. With push-button con-

trols at any desired number of convenient points, doors can be raised or lowered quickly at a second's notice.

As a result, they are consistently closed more quickly after being opened, which brings important reductions in heating and air-conditioning costs.

When opened, the doors remain completely out of the way, safe from damage by wind or vehicles. When closed, their rugged all-metal interlocking-slat curtain assures extra protection against fire, intrusion, wind and weather.

Kinnear Rolling Doors are built in any size, to meet the particular specifications of each opening, in old or new buildings. Motor or manual control.

Write for full information.



With this rugged Kinnear Motor Operator, doors can be opened or closed from any number of convenient push-button controls.

Saving Ways in Doorways
KINNEAR
ROLLING DOORS

Offices and Agents in All Principal Cities
THE KINNEAR MANUFACTURING CO.
FACTORIES:

650-680 Fields Ave., Columbus 16, Ohio
1742 Yosemite Ave., San Francisco 24, Calif.

MARKETS

	Estimated Total Cost	Planning Advance
Holt—water project.....	154,300	5,000
Detroit—public bldgs.....	19,286,305	105,000
Grand Rapids—parking zone.....	1,258,000	21,680
Harbor Spring—public util.....	172,000	4,700

MINNESOTA

Forest Lake—high sch....	328,700	14,240
Intern'l Falls—sch.....	389,232	15,160
Kensington—sewer system.....	71,000	2,960
Mankato—sewer projects.	1,056,300	30,620

MISSISSIPPI

Booneville—sewer mains.	125,000	3,920
Booneville—sewer plant..	50,000	2,100
Jackson—sewer units (3) .	1,619,140	38,400
Tupelo—newer lines— plant.....	1,050,000	23,020
West Point—sewage plant.....	93,000	5,240
Amory—water projects (3).....	263,700	7,220

MISSOURI

Amsterdam—sch bldg....	160,000	6,740
Blue Sp's—elem. sch.....	236,080	7,480
Craig—vacation shop....	26,567	1,360
Festus—high sch.....	392,316	14,000
Festus—elem. sch.....	89,000	2,100
Hardin—sch. & gym.....	62,200	2,700
Otterville—sch.....	174,000	5,500
St. Louis—8 projects		
St. Louis—primary sch....	110,375	4,500
St. Louis—auditorium....	110,375	4,500
St. Louis—3 elem. sch....	3,204,000	60,000
St. Louis—tech. sch.....	1,969,500	35,000
St. Louis—high sch. add.	1,575,900	30,000
St. Louis—stadium—2,500.	261,000	6,000
University of Missouri Columbia—2 library adds.	833,000	34,160
Columbia—2 ag. bldg. adds.....	1,472,060	61,920
Rolla—eng. laboratory....	576,190	24,140
Chaffee—sewers—water ext.....	195,000	8,620
Marysville—sewage plant	337,129	9,500
Poplar Bluff—sewer mains.....	700,000	26,400
Poplar Bluff—lift sta....	625,000	23,660
Stanberry—sewer extension.....	118,925	4,420
Tarkio—sewer extensions.	190,000	7,200
Univ. City—sewer project.....	2,610,000	60,000
Albany—filtration plant..	35,500	1,420
Chaffee—water-sewers....	195,000	8,620
Gainesville—well & pump	46,950	1,720
Maysville—reservoir-dam	55,000	2,040
Mexico—highway paving.	1,123,674	41,520

MONTANA

Hamilton—sewage plant.	305,800	12,300
Helena—sewer extension.	682,270	28,500
Dillon—water project....	231,750	10,000
Sidney—paving projects.	494,541	20,780

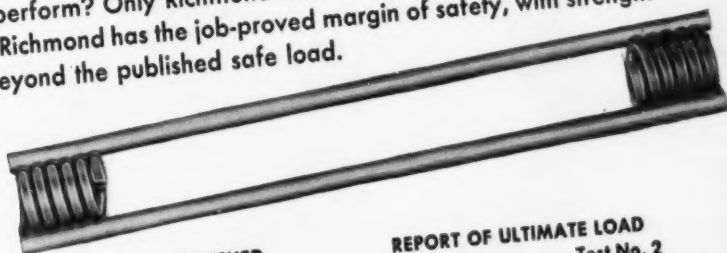
NEBRASKA

Louisville—sewage plant.	27,151	980
Odell—sewage plant.....	64,312	2,100
Polk—sewer extensions...	82,473	3,000
Pender—sewer extensions	89,666	1,640
Sterling—sewer extensions.....	77,621	2,840
Nebraska City—water project.....	226,907	8,100

YOU CAN REALLY RELY ON RICHMOND

— because only the genuine gives you 30 years of job-tested approval.

That old fable about imitation being the sincerest form of flattery isn't true. For instance, in addition to being the most widely used concrete form tying devices, Richmond products also are most widely imitated. Imitations may look like the genuine, but do they perform? Only Richmond has been job-tested for 30 years. Only Richmond has the job-proved margin of safety, with strength far beyond the published safe load.



TYSCRU SIZE	PUBLISHED SAFE LOAD
1/2" Dia.	6000
3/4" Dia.	12000
1" Dia. 2 Strut	18000
1" Dia. 4 Strut	24000
1 1/4" Dia. 4 Strut	30000

REPORT OF ULTIMATE LOAD	
Test No. 1	Test No. 2
9,490 lbs.	10,590 lbs.
19,720 lbs.	20,570 lbs.
27,580 lbs.	27,820 lbs.
37,930 lbs.	36,890 lbs.
55,270 lbs.	56,790 lbs.

WHY DOES THE BOSS
ALWAYS SAY, "USE ONLY
RICHMOND PRODUCTS"?

DON'T YOU KNOW THAT ONLY
BY INSISTING ON RICHMOND
CAN HE BE SURE OF GETTING
THE CORRECT PRODUCT—TO BE
CERTAIN THE JOB WILL BE
DONE RIGHT?



RICHMOND KNOW-HOW—DEPENDABILITY—SERVICE—ESTIMATES & JOB PLANNING



HELTZEL

SUPERIOR *Batching Plants*

• More efficient batching plants will effect savings for you in operation and plant costs. Heltzel's specialized engineers work out your specific problems on both stationary and portable installations, ranging in capacities from 30 to 500 tons. Why not let a Heltzel representative explain exclusive features and Heltzel's better construction.

• Recirculating cement system fills sealed cement compartment (right), and then automatically switches to loading of storage tank.

• 1000 bbls. capacity cement storage (others 600 to 2000 bbls. optional) assures continuous operation of plant

• Trouble-free cement valves, exclusive with Heltzel, at all cement discharge points assure smooth flow through narrow passages.

• Ohio Conveyor system — stock-piles aggregates and loads bin with one elevating conveyor and one tunnel conveyor. Diversers unload incline conveyors to stock piles at any specified points.

• Heltzel batchers automatic or manually operated, are designed for speedy operation and uninterrupted service. Complete plants, including conveyor systems, are Heltzel designed and built for uniform quality



HELTZEL STEEL FORM & IRON COMPANY
WARREN, OHIO, U. S. A.

Please send information regarding:

Stationary Batching Plants ☐ Road and Airport Forms ☐
Portable Batching Plants ☐ Curb and Gutter Forms ☐

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ADDRESS _____
CITY _____ STATE _____
SIGNED _____

**WRITE FOR
BULLETIN**

HELTZEL STEEL FORM & IRON CO.
WARREN, OHIO • U. S. A.

MARKETS

	Estimated Total Cost	Planning Advance
Decatur—elec. distribution.....	19,727	1,060

NEW HAMPSHIRE

Weare—elem. sch.—6 rms.	83,700	3,060
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NEW JERSEY

Hadden Twp.—20-rm. sch.....	501,000	20,700
Ramsey—sch.....	305,100	12,160
Wood-Ridge—11-rm. sch.	432,000	11,000
Bergen Co. Sewer Authority—		
Unit No. 1.....	4,450,000	140,000
Unit No. 2.....	3,475,000	105,000
Hasbrouck—sewage plant	120,000	4,000
Bergen Co.—storm drains	318,000	9,740
Haywood—storm sewers.	34,500	1,200
Perth Amboy—storm sewers.....	193,500	7,000

NEW MEXICO

Portales—grade sch.; 5 rms.....	45,500	1,500
Portales—elem. sch.; 5 rms.....	56,100	2,000
Portales—jr. high sch., add.....	37,270	1,200
Santa Fe—sewers (3 units).....	600,500	29,000

NEW YORK

Freeport—16 rm. elem. sch.....	895,000	39,900
Jamestown—elem. sch. 20 rms.....	1,034,880	35,600
Jamestown—elem. sch. 20 rms.....	906,160	30,900
Jamestown—8-rm addition.....	220,361	7,860
Hornell—sewage plant.....	225,300	11,320
Orangetown—sewage plant adds.....	992,000	35,000
Albany—water filt. plant.	540,000	19,740
Long Beach—water treat pl.....	450,000	27,000
Waterloo—water pipe.....	212,000	7,500
Buffalo—river bridge.....	1,205,000	47,000
Long Beach—incinerator.	340,600	18,600
Penn Yan—elec. power plant.....	480,230	15,000

NORTH CAROLINA

Raleigh—storm sewers.....	2,160,000	81,040
Williamston—sewer lines.	100,000	2,000
Raleigh—water project No. 1—Lake Johnson dam.....	174,600	6,400
No. 2—tank & feeder main.....	307,000	12,820
No. 3—filters- reservoirs.....	1,190,000	50,280

NORTH DAKOTA

Rhame—improvements.....	44,000	1,420
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OHIO

Bedford—15-rm. sch.....	485,400	16,800
Butler Co.—8-rm. addition.....	198,000	7,460
Lorain Co.—12-rm. sch. gym.....	341,800	12,800
Lorain Co.—6-rm. add.....	114,700	4,400
Sylvania—8-rm. add & aud.....	247,850	7,580
Ashtabula—treatment pl.	870,000	28,000
Clyde—tr. plant improve.	100,000	3,100

**THE BIG THREE
OF BAY CITY**

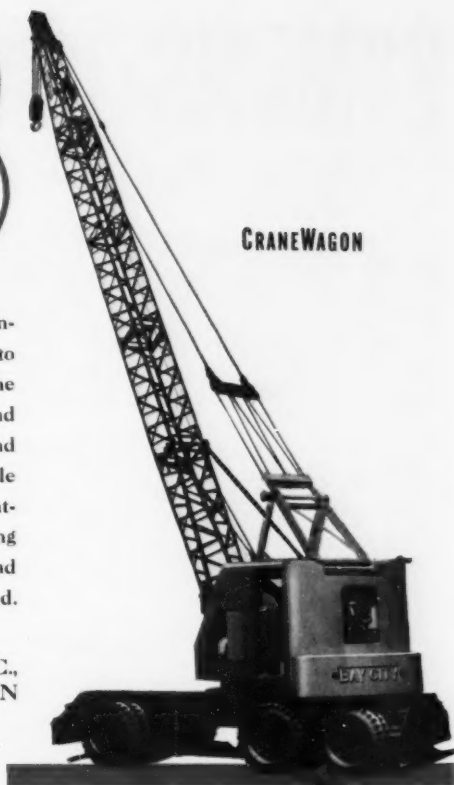
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BAY CITY excavating and material handling equipment needs no introduction to AGC members. You are familiar with the high performance, low maintenance and easy operation of both the crawler and rubber tire mounted machines. Available in a wide range of sizes, having crane ratings to 25 tons, the BAY CITY is waiting to handle your difficult lifting problems and dirt moving jobs. Let's get acquainted.

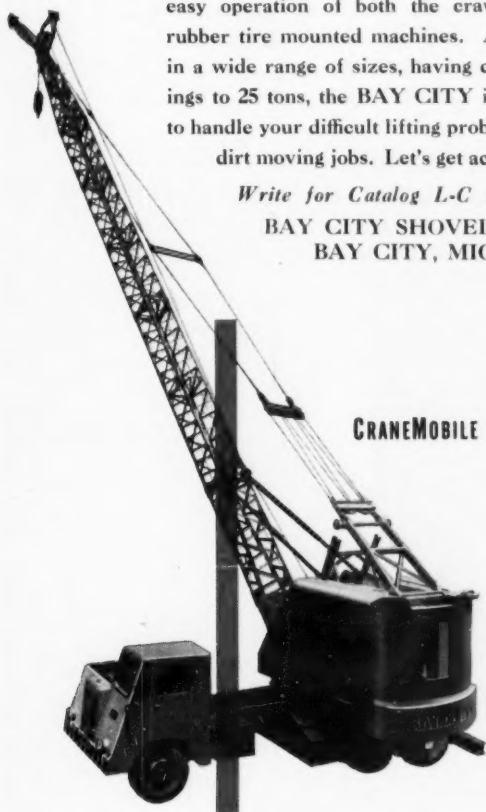
Write for Catalog L-C today.

**BAY CITY SHOVELS, INC.,
BAY CITY, MICHIGAN**

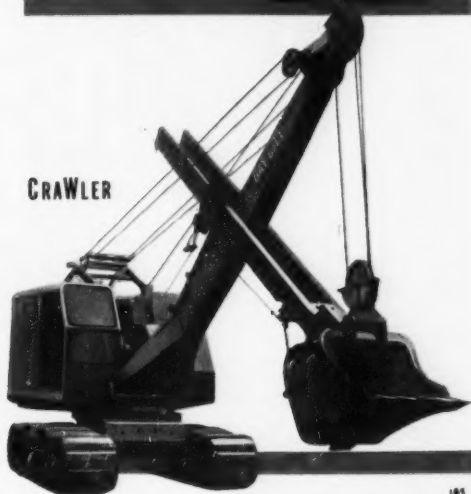
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FORMS • SHORES COLUMN CLAMPS

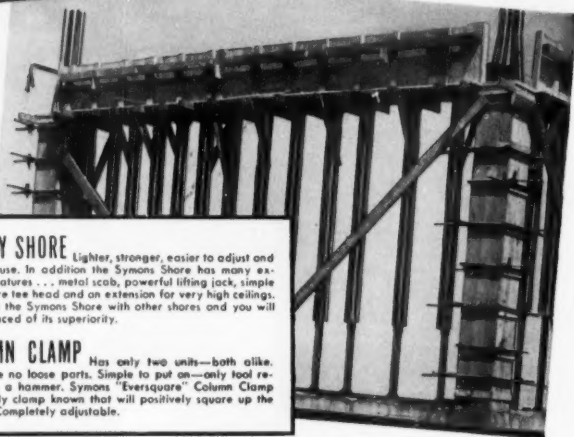
For Economy with Concrete



FORMING SYSTEM

Symons Forms afford an easy method of form construction and cut labor costs 50%. Here's why... only three essential pieces of hardware are needed—bolt, wedge and form tie. The tie remains in the concrete while bolt and wedge may be used again and again. The bolt holds the form together and also holds the tie both ways. NO NAILS, no spreaders... less bracing, less waters. Stripping of forms is simple, just take out wedges, remove bolts, then easily pull forms up or out without tools. Ties break back inside the wall 1" from the surface by twisting loop $\frac{1}{2}$ turn.

Symons forms are available completely made up ready for use or you may purchase the hardware for building your own forms.



SAFETY SHORE

Lighter, stronger, easier to adjust and safer to use. In addition the Symons Shore has many exclusive features... metal scab, powerful lifting jack, simple and secure tee head and an extension for very high ceilings. Compare the Symons Shore with other shores and you will be convinced of its superiority.

COLUMN CLAMP

Has only two units—both alike. There are no loose parts. Simple to put on—only tool required is a hammer. Symons "Eversquare" Column Clamp is the only clamp known that will positively square up the column. Completely adjustable.

Symons Forms, Safety Shores and Column Clamps can be rented with purchase option. Paid rentals apply on purchase price. Additional information will be sent on request—use coupon below.



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Information regarding Symons Panel Forms
☐ Catalog and Prices ☐ Construction details ☐ Samples
☐ Layout and estimate (our plans being sent under separate cover)

Information regarding other Symons Products
☐ Column Clamps ☐ Bar Ties and Tie Chairs
☐ Safety Shores ☐ Scaffolding

Name _____

Address _____

City _____

Zone _____ State _____

MARKETS

	Estimated Total Cost	Planning Advance
Defiance—tr. pl. improve.....	1,100,000	32,460
Genoa—treat. plant.....	240,000	8,360
Lorain—sewage system No. 1.....	943,100	31,500
Lorain—sewage system No. 2.....	315,000	10,240
Marietta—new sewers.....	1,437,440	50,440
Newton Falls—sewage system.....	555,000	26,500
Oak Harbor—sewage system.....	315,000	10,240
Toronto—sewage system.....	544,340	21,000
Youngstown—3 projects Youngstown—sewage system.....	9,010,500	265,000
Woodfield—water project.....	117,200	3,600
Columbia Ct.—co. home hosp.....	178,000	7,000
Center Twp.—juv. receiving.....	120,000	5,000
Lisbon—court house annex.....	247,000	10,000
Lisbon—jail.....	334,500	15,000
Ravenna—ct. house & jail.....	1,447,000	52,000
Franklin Co.—airport add. (Port Columbus)	3,943,250	98,800

OKLAHOMA

Lawton—sewer system add.....	617,000	22,400
Okmulgee—sewage plant.....	455,000	14,900
Cherokee—water project.....	199,200	6,760
Okmulgee Ct.—bridge.....	31,130	1,280
Okmulgee Ct.—grading, etc.....	58,000	2,640

OREGON

Coos Bay—Jr. high sch.- gym.....	475,000	19,800
Oswego—Jr.-Sr. high sch. Eugene—Commerce Bldg. (University of Oregon)	586,000	22,000
Corvallis—home ec. bldg. (Oregon State College)	730,000	29,000
Vale—sewage plant.....	77,000	1,500

PENNSYLVANIA

Clairton—sewage plant.....	800,000	28,500
Coraopolis—sewage plant.....	930,000	26,600
Elizabeth—sewage plant.....	224,500	4,000
McKeesport—sewage sys. (2 projects).....	3,440,000	98,000
Carbondale—sewage plant.....	1,097,000	40,000
Tamaqua—sewage plant.....	747,500	12,000
Ambridge—water project.....	683,000	23,500
Waynesboro—dam- reservoir.....	425,000	16,000

SOUTH CAROLINA

Charleston—sewage system.....	238,611	8,600
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SOUTH DAKOTA

Kennebec—water project.....	56,000	2,500
Hot Springs—road surfacing.....	133,400	5,600

TENNESSEE

Hamilton Co.—13 bridges.....	677,300	22,400
Nashville—5-lev. garage.....	4,255,000	180,000
Covington—elec. plant add.....	84,739	2,700
Nashville—heating plant.....	636,000	27,000



WHAT A PICTURE!

It shows at a glance how effectively a MORETRENCH WELLPOINT SYSTEM is keeping 40 feet of water under control on this deep excavation — with the river outside looking in!

The solution to your pumping problem is as near as your phone. Contact any one of our offices.

Tanner's Creek Power Plant, Lawrenceburg, Indiana. Owner: Indiana and Michigan Electric Co. Engineers: American Gas and Electric Service Corp., New York

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HOUSTON 8, TEXAS

ROCKAWAY
NEW JERSEY

MARKETS

	Estimated Total Cost	Planning Advance						
			Ogden—sewage plant.....	833,000	30,000	WEST VIRGINIA		
			Richfield—sewage plant..	165,000	7,300	Barbourville—sewage plant.....	223,000	9,000
			Centerville—reservoir- mains.....	109,269	3,800	Buckingham—sewage plant.....	431,318	26,100
TEXAS			Clarkston—reservoir.....	30,600	1,300	Elkins—sewage plant.....	730,000	20,000
Chambers Co.—sewage plant.....	89,300	3,700	North Ogden—mains- reservoir.....	86,660	3,140	Huntington—2 sewer projects		
Galveston Co.—sewage plant.....	211,000	8,240	Redmond—well-pump- reservoir.....	16,400	800	No. 1—treatment plant..	1,416,501	39,000
Dickinson—sewage plant.	70,000	2,760	Tremonton—reservoir, pumps.....	132,400	5,200	No. 2—mains, pump sta.	2,880,900	66,400
Marble Falls—sewage plant.....	217,500	9,000	Salt Lake City County— county jail & record bldg.....	2,482,000	98,600	Weirton—pipe lines- treatment.....	380,500	14,000
Mineral Wells—adds. to system.....	75,000	2,460				WISCONSIN		
Chambers Co.—water system.....	167,000	6,300	VERMONT			Janesville—high sch. gym.	3,533,500	135,000
Mineral Wells—water mains.....	162,000	5,800	Essex Center—water system.....	70,450	2,500	Two Rivers—high sch. add.....	500,000	18,000
Rosebud—new water tank.....	88,275	3,740	VIRGINIA			Ashland—sewage plant..	1,000,000	36,000
Brazos River Conserva- tion & Reclamation District			Abingdon—sewage plant.	163,000	6,000	Augusta—sewage plant..	91,358	2,060
Jones Co.—dam, pow. pl. reservoir.....	3,800,000	40,000	Hopewell—sewage plant.	660,000	31,640	Darlington—sewage plant adds.....	163,376	5,820
Haskell & Stonewall Counties 2 dams, power plant, etc.....	6,790,000	77,500	Luray—sewage plant- lines.....	157,000	5,080	Oconto—sewage plant lines.....	574,656	23,860
			South Norfolk—new system.....	18,503	620	Walworth—sewage plant & system.....	248,271	9,560
			WASHINGTON			Milwaukee—city hall annex.....	3,759,500	110,000
			Gig Harbor—sewage plant.....	203,000	9,400	WYOMING		
			Kelso—sewage plant....	800,241	20,280	New Castle—road building.....	104,256	4,260
			Winlock—sewage plant..	90,000	5,000	Rawlins—road building..	228,467	7,360
			Spanaway—water mains- tank.....	314,000	15,600	Grand Total		
			Olympia—co. courthouse.	198,000	9,440	262,978,391		
						7,618,760		
UTAH								
Murray—20-rm. sch.....	530,000	22,500						
Bountiful—storm sewers.	112,300	3,800						
Brigham—sewage plant- mains.....	245,000	8,800						

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NATIONAL SURETY CORPORATION

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INVISIBLE ARMOR [®]

P.C.A. Dedicates \$3 Million Laboratories

• Triples Research Activities in Portland Cement Field

» THE NEW \$3 million laboratories of the Portland Cement Association at Skokie, Illinois, were dedicated June 8. The new facilities, in step with a general trend toward expanding budgets for research in American in-

dustries, more than triple the association's research activities.

Representing The Associated General Contractors of America were President Walter L. Couse and H. E. Foreman, managing director.

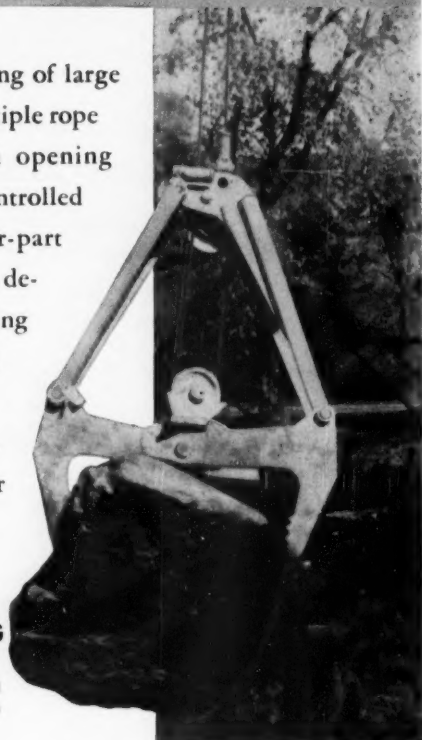
The two buildings, providing about 98,000 square feet of floor space, are made of cement and aluminum. Only portland cement shipped into the Chicago area was used, and a standard of quality that could be reproduced on any job in the field was maintained. The two buildings include more than 30 individual laboratories and testing equipment ranging from a million-pound compression machine to instruments that measure the surface area of a grain of cement. Weather conditions ranging from 20 degrees below zero to 130 degrees above can be simulated.

The P.C.A., composed of 67 cement producers who supply about 90 per cent of all the cement used in the United States, hopes that the new laboratories will enable its scientists to make better and cheaper cement, and devise improved and more extensive methods for its use. One of the first projects to be developed is a low-cost method for burning clay. Burnt clay is a fairly new concrete aggregate which is much lighter than sand and gravel, the materials it is hoped to replace. At present, a plant which produces the new aggregate costs about \$250,000. P.C.A. researchers believe that they can develop a process which will require a plant costing only \$75,000.

Speed up the job with the **WELLMAN** stone grab

• Simplifies handling of large stone. Operates like multiple rope clamshell bucket with opening and closing of jaws controlled from cab of crane. Four-part closing cable reeving develops tremendous closing force on stone. Model shown has 5-ton capacity, 4' 6" jaw spread, weighs 2200 lbs. Other capacities available. Write for details.

**THE WELLMAN ENGINEERING
COMPANY**
7015 CENTRAL AVENUE
CLEVELAND 4, OHIO



M. W. Watson Honored

The Topeka Chamber of Commerce held a recognition dinner June 19 honoring Martin W. Watson, past president of The Associated General Contractors of America.

At present Mr. Watson is vice president of the Topeka Chamber of Commerce, president of the Kansas State Chamber of Commerce, and a director of the United States Chamber of Commerce. (June Constructor, page 58).

The Topeka State Journal, in an editorial on June 19 said, "The Topekan is the first member of this community to serve at once in posts of high leadership in the world of business at all three levels—city, state and national. His concept of business is dynamic and forehanded, never complacent or static. As citizen-leader, Martin Watson has earned a round of civic applause."

Mr. H. E. Foreman, managing director of the national A.G.C., attended the dinner and gave a talk honoring Mr. Watson.

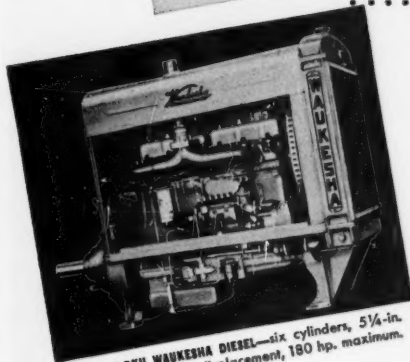
"a vast
improvement
in
production"

—SAYS TIMOTHY F. BURKE



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Diesel POWER



Model 148-DKU WAUKESHA DIESEL—six cylinders, 5¼-in. x 6-in., 779 cu. in. displacement, 180 hp. maximum.

... • Timothy Burke, Inc., of Scranton, Pa., have been excavating engineers for 67 years—in railroad and dam construction—and, for the past 32 years, coal stripping in the Anthracite region. Right now they're operating eighteen shovels and draglines. With their experience, they *know* a good engine when it comes on the job...

Here's what their Mr. Timothy F. Burke, Vice-Pres. and Gen. Mgr., says: "We installed a Model 148-DKU Waukesha Engine in our Northwest Model 85 Dragline to replace a gas engine (of another make) and we are very pleased with the performance... We have noted a vast improvement in production, and with regards to efficiency and economy, we can say the results have been very satisfactory." Easy to start, too, these Waukesha Diesels, and smooth...snappily responsive to all power and load demands.

Auto Gear & Parts Company, Inc., of Philadelphia, conversion specialists, supplied this Waukesha Diesel and installed it. Ask your distributor about Waukesha Diesels. Get Bulletin 1414.

WAUKESHA MOTOR COMPANY • WAUKESHA, WISCONSIN

NEW YORK

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LOS ANGELES

INDUSTRY RELATIONS

C.E.D. Acclaims Williams

W. Walter Williams of Seattle, Washington, who addressed the 31st annual convention of A.G.C. in San Francisco on the subject of "The Construction Industry and the National Economy" (April Constructor, Page 31) was acclaimed for "his distinguished stewardship" of the Committee for Economic Development during the past two years at a meeting of the Board of Trustees of that body in Washington, D. C. recently.

Mr. Williams, who is president of Continental Inc., succeeded Paul G. Hoffman as chairman of C.E.D. May 20, 1948. He is succeeded by Marion B. Folsom of Rochester, N. Y., treasurer and director of Eastman Kodak Company, who will serve for two years.

Among those paying tribute to Mr. Williams for "his major contribution to the national economy through his leadership of C.E.D., which is dedicated to the development of responsible and objective research designed

to preserve and strengthen our free way of life," were Thomas B. McCabe, chairman of the board of the Federal Reserve System, ECA Administrator Paul G. Hoffman, Senators Ralph Flanders (R. Vermont) and William Benton (D. Conn.) and others prominent in business, education and the government.

Trade Fair Scheduled

The First United States International Trade Fair will be held in Chicago, August 7 through 20. Modelled on the famed European trade fairs of Leipzig, Milan, Antwerp and others, this is the first time a truly global marketplace has been set up in this country, it is said. It is a non-profit enterprise for world trade, world prosperity and world peace, according to the prospectus.

Contractors will be interested in the fair because among its hundreds of products from more than 40 nations will be building materials and supplies,

plumbing, heating and air conditioning equipment and supplies, hotel and restaurant equipment and supplies, office equipment and furniture, retail store equipment and a variety of other materials and equipment used by the construction industry.

A.S.A. Honors Fowler

For his outstanding work in the development of industrial standards in the field of civil engineering and construction, William H. Fowler, vice president, Dravo Corp., Pittsburgh, Pa., received an honorary certificate of recognition from Thomas D. Jolly, president of the American Standards Association, during ceremonies held in May.

Mr. Fowler is a member of the Standards Council, A.S.A., and also represents the interests of The Associated General Contractors of America, a member of the A.S.A.

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COVERING IMPORTANT CONTRACTING PROCEDURE



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1.	A.G.C. Manual (Contains documents listed below: Nos. 3-30, inclusive, and Nos. 34, 35, 36, 36A., 37, 38)	\$5.00	\$50.00	
2.	Accident Prevention Manual (Revised and enlarged 1949)	3.00	30.00	\$210.00
CONTRACTS				
3.	Standard Contract for Engineering Construction issued by the Joint Conference on Standard Construction Contracts	.25	2.75	20.00
4.	Standard Building Contract of the American Institute of Architects—Revised 5th Edition	.50		47.50
5.	Subcontract form—American Institute of Architects—Revised 5th Edition	.10		9.50
7.	Standard Government Contract and Instructions to Bidders	.10	.50	4.00
8.	A.G.C. Cost Plus a Fee Contract	.10	.50	2.50
9.	A.I.A. Cost Plus a Fee Agreement between Contractor and Owner	.10		
11.	Equipment Rental Agreement	.10	.50	3.00
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17.	Job Overhead Summary	.10	.50	3.00
20.	Contractors' Equipment Ownership Expense (Itemized tables of ownership expense elements with instructions for application. Revised 1949)	1.00	10.00	65.00
21.	Equipment Record—Bond paper	.10	.50	3.00
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24.	Standard Pre-Qualification Questionnaires and Financial Statements for Prospective Bidders—Complete in Cover Engineering Construction (For Qualifying Before Bidding)	.20	1.80	12.00
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27.	Standard Questionnaires and Financial Statement for Bidders—Complete in Cover. Building Construction (For Qualifying After Bidding)	.20	1.80	12.00
28.	Financial Statement and Questionnaire for Credit Transactions	.20	1.80	12.00

MISCELLANEOUS				
29.	Insurance Check List	.10	1.00	5.00
30.	The Functions of a General Contractor	.10	.75	6.00
34.	A.G.C. Governing Provisions	.10	.50	3.00
35.	A.G.C. Code of Ethical Conduct	.10	.50	3.00
36.	Concrete Mixer Standards	Single copies—no charge; quantity prices on application.		
36a.	Contractors' Pump Standards			
37.	A.I.A. Standard Form of Arbitration Procedure			
38.	Suggested Guide to Bidding Procedure			



FOR A.G.C. MEMBERS ONLY

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List of Styles and Prices on request.

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40.	A.G.C. Metal Seal (red and black) 10" dia.	.40
41.	A.G.C. Decalcomania Seal (red and black)	
a.	10" dia.	.20
b.	5" dia.	.10
Metal Seals and Decals: 20% discount for orders of more than 50; 40% discount for orders of 200 or more.		

43. A.G.C. SOCIAL SECURITY FORMS

Form SS1: Application for Employment;
Form SS2: Employees' History Record;
Form SS3: Employees' Employment and Earnings; Form SS4: Payroll. List of prices and styles will be furnished to A.G.C. members on request.

USE THE CONVENIENT COUPON TO PLACE YOUR ORDER

Order No.	Amount	Cost	11.	12.	16.	17.	20.	21.	22.	24.	25.	26.	27.	28.	29.	30.	34.	35.	36.	36a.	37.	38.	40.	41a.	41b.	43.
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Gentlemen: Enclosed find check for \$_____ for which please send materials as ordered by number herewith.

Name _____ Address _____

City _____ Zone _____ State _____

July 1950

Fairleader—*American Hoist & Derrick Co., St. Paul 1, Minn.* All-steel fairleader has throat large enough to pass joint made up with "Crosby" wire rope clips. Sheave and head are mounted on anti-friction bearings. Designed to withstand 100% of strength of rope, it is available in sizes for $5\frac{3}{4}$ ", 1" and $1\frac{1}{2}$ " wire rope.

Respirator—*American Optical Co., Southbridge, Mass.* Twin cartridge respirator R5055, providing protection against low concentrations of organic vapors and dusts, has Bureau of Mines approval BM-2305. Cartridges are supplied in balanced pairs and permit users to switch cartridges for different uses with same respirator.

Masonry Drills—*Carbology Co., Box 237, Roosevelt Park Station, Detroit 32.* "Live-Spiral" carbide-tipped masonry drills have flutes made of piano wire wound in low helix around steel shank to remove dust as fast as it is formed. Drills fit into any portable drill, drill press, hand brace or rotary-impact drill. Coolant should not be used with new drill.

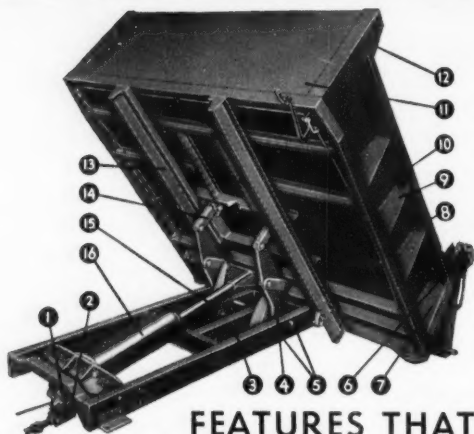
Hoe—*Hyster Co., 2902 N. E. Clackamas St., Portland 8, Oreg.* D6 "Hystaway," tractor-mounted $\frac{1}{2}$ -yd. excavator, may now be equipped with hoe front previously available only for D7 and D8 models. It can be installed on new or used "Hystaways." Standard width of dipper is 33" but for narrow ditching 23" dipper is available.

Ladder Platform—*Res-Tep, Inc., 1340 E. 222d St., Euclid 17, Ohio.* Portable platform attaches to round ladder rung. It is of aluminum construction and weighs about 4 lbs. Tensile strength is 25,000 p.s.i. Platform is constructed so that majority of weight applies to ladder uprights. Surface is 12" wide by 5" deep and has deep diamond tread to prevent slipping.

Welding Machine—*Leader Welding and Manufacturing Co., 2418 Sixth St., Berkeley, Calif.* Unitized machine is designed for production welding and hard-facing. It incorporates 500 amp. A.C. welder, automatic welding head and positioner having accommodations for both horizontal and angular mounting of work. It operates off 220 or 440 volt power line. Power supply contains 2 windings; heavy-duty side supplies automatic head with variable heats from 100 to 200 amps. Separate stinger winding of 120 amp. capacity is for tack welding operations.

Cement Batcher—*Shovel Supply Co., Box 1369, Dallas.* Portable bulk cement batcher has up to 12 cu. ft. per batch capacity. Scales and controls are located for one-man operation. Apparatus is watertight and bin can be locked. Power is provided by 16 h.p., 4-cylinder engine complete with totally enclosed gear reduction, clutch and 4-speed transmission. Batcher is set up for work by rotating elevator around center pin into working position, then retracting wheels mechanically and setting up ramps for loading truck. When used at freight car,

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- 1 The amazing patented "Non-thrust" Anthony Roller Bearing Pump. Eliminates the number one cause of pump failure—destructive mechanical thrust on the gears.
- 2 "BALANCED" PISTON-TYPE CONTROL VALVE. Only one moving part. Positively raises, lowers or locks hoist at any dumping angle.
- 3 DOUBLE "T" MEMBERS support lift mechanism through center.
- 4 DOUBLE ARM "POWER-SPEED" HOIST gives power to beginning of lift when load is heaviest and increasingly faster action as body goes up and load becomes lighter.
- 5 DOUBLE SHAFTS. "Lift Load" of hoist is supported at 4 points on 2 shafts instead of only one.
- 6 NON-BINDING OFFSET TAILGATE HINGES standard on Model "D-6" contractors Body.
- 7 ENCLOSED REAR AND FRONT CORNER BRACES for maximum support of body.

- 8 TOP BODY ROLLS strong, extra-wide $3\frac{1}{2}$ " for maximum strength.
- 9 CLOSED IN PYRAMID "V" TYPE SIDE BRACES give extra support to box sides for heavy loadings.
- 10 RUNNING BOARDS are 6" wide and are supported by cross members to withstand side swiping.
- 11 INTERNALLY BRACED BODY END where depth of end requires bracing to prevent bulging.
- 12 DOUBLE GUSSET SIDE BOARD POCKETS prevent side boards from falling out.
- 13 TELESCOPIC TIPPING FRAME permits Anthony Hydraulic Hoists to have "LOWEST MOUNTING HEIGHT" without reducing or sacrificing strength.
- 14 DOUBLE ARMS lift advantageously "far ahead" under load—eliminating hinge strain.
- 15 PISTON SHAFT, a most important part of the hoist, is extra-large $2\frac{1}{4}$ " diameter solid steel.
- 16 CYLINDER seamless steel. Cylinder head designed to prevent gasket "blowing."



ANTHONY CO., STREATOR, ILL.

NEW EQUIPMENT • MATERIALS

ramps are not needed as intake bin is placed at proper height for receiving cement. Unloading ramp forms gooseneck for attaching to fifth wheel of truck, or batcher can be towed behind ordinary dump truck. Over-all height in trailing position is 12'6".

Masonry Saw Pump—Champion Manufacturing Co., 2028 Washington St., St. Louis 3. New type pump for use on Champion Models R and P wet cutting saws is designated Model C. Pump does not require extra belt and pulley and can be run dry without harm. Pump is self-priming and is of aluminum construction.

Tailgate Loader for Pick-up Trucks—National Lift Co., Dept. 2036, 225 Madison St., Waukesha, Wis. Hydraulically powered tailgate loader, called "Lift-O-Matic," can be installed on most pick-up trucks. Its lifting capacity is 1,000 lbs. Hydraulic power is provided by fan-belt-driven hydraulic pump with its own self-contained clutch. Pump operates only when lifting power is needed. One control raises, holds or lowers tailgate. "Lift-O-Matic" is all-steel construction. When it is not being used, it can be level-locked at truck body floor level, or it can be swung up and locked to act as tailgate. Safety bypass valve in hydraulic pump prevents overloading.

Traffic Line Marking Machine—Gledhill Road Machinery Co., Galion, Ohio. Tractor-mounted 2-man operated machine marks from 3" to 8" in solid or broken pattern. It is equipped with paint guns, tanks, valves, gages and air compressor. Patented adjustable bead dispensers give uniform distribution. Over-all width of machine is 5'6", permitting traffic to pass on either side. Tractor is equipped with governor to provide constant speed.

Keyhole Saw—Millers Falls Co., Greenfield, Mass. No. 525 saw has rotatable blade and cuts metal, wood and other materials. Tapered 11¼" blade turns and locks in 8 different positions. Standard equipment includes 10-tooth-to-inch "Tuf-Flex" blade of patented hack saw alloy steel. Special purpose blades offered include 24-tooth "Tuf-Flex" and 7-tooth spring-tempered wood cutting blade. Over-all length is 15½".

Cutting Electrode—All-State Welding Alloys Co., 273 Ferris Ave., White



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Short-Travel tubular valve, precision balance of working parts turns every last ounce of AIR POWER into STRIKING POWER.

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Plains, N. Y. Electrode cuts, pierces, gouges, chamfers or removes welds without use of oxygen or special equipment. It has highly heat-resistant coating that concentrates arc at tip. Coating burns off at even rate with metallic core. Sizes for all thicknesses of metals are available.

Fastening Devices—Holub Industries, Inc., Sycamore, Ill. Three new

types of "Hi" fastening devices are available in 66 sizes to meet anchoring needs in floors, walls and ceilings. Toggle bolts, for fastening to lath, plaster, hollow tile, are offered in 3 styles—spring wing, and 2 one-piece wing tumble types. They are offered in several screw thread sizes from $\frac{1}{8}$ " x 2" up to $\frac{1}{2}$ " x 6", in 31 different screw lengths. Machine screw lead anchors, for installing fixtures, parti-

tions, pipe, railings, ornamental iron, etc., are available in 10 sizes from screw thread size 6-32 to $\frac{3}{4}$ -10. Expansion bolts for mounting into hard masonry materials are offered as units consisting of taper-headed bolt, lead sleeve, metal cone and square or hexagon nut. They are made in 4 screw thread sizes from $\frac{3}{16}$ " x 1" to $\frac{1}{2}$ " x 8" in 25 bolt lengths.

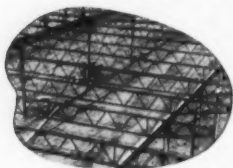
Phone Booth—Burgess-Manning Co., Libertyville, Ill. Sound-proofed phone booth, for use in large buildings under construction for communication between workers and from field office to job, is called "Acousti-Booth." It is doorless, perforated inside and out and lined with sound-absorbing acoustical material. It is offered in 2 models, one full-length and resembling conventional booth, other waist-high for hanging on wall or placing on desk.

Oxy-Acetylene Movie

"The Oxy-Acetylene Flame—Master of Metals" is the title of a 20-minute motion picture on oxy-acetylene welding and cutting. Produced in sound and color, it is the cooperative effort of the International Acetylene Association and U. S. Bureau of Mines. It shows how oxy-acetylene processes are used to cut risers on castings, produce welded aluminum chair frames and prepare H- and I-beams for heavy steel construction. Animated sequences show how calcium carbide and acetylene are produced and why oxygen and acetylene are so effective in producing the "hottest flame on earth." Workings of welding torches, cutting torches and oxygen and acetylene regulators are explained.

Requests to borrow copies of the film should be addressed to the Supervising Engineer, Graphic Services Section, Bureau of Mines Experiment Station, 1800 Forbes St., Pittsburgh 13, Pa.

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St. Louis, Mo.



NEW EQUIPMENT • MATERIALS

Trench Hoe—Harnischfeger Corp., Small Excavator Division, 4418 W. National Ave., Milwaukee 14. New "gooseneck boom" hoe attachment is announced for P&H Model 255A excavator. It has 2-part hoist line, power-operated auxiliary gantry for raising and lowering boom, low gear transmission. Machine can cut vertical end at start of trench and also trim vertical walls. There is chopping action due to special hoe stick linkage.



P&H trench hoe

Roller—Huber Manufacturing Co., Marion, Ohio. Retractable wheel roller is 5-ton tandem machine. It uses own power to raise and lower trailing mechanism that is built integral with frame. When roller is being towed, rolls ride 9" from ground. It is powered by 4-cylinder V-type air-cooled gasoline engine. Final drive is through heavy-duty roller chain running on heat-treated sprockets. Hydraulic power for lifting or lowering trailing wheels is supplied by gear pump driven by adjustable-tension V-belt from engine crankshaft. Described in Bulletin T-143 available from manufacturer.

Mixer—Multiplex Machinery Corp., Elmore, Ohio. Portable multi-blade mixer, designed for masonry and plastering work, is powered by electric motor, gas or diesel engine. Mixing time is 3 minutes for mixes of plaster, concrete or other aggregates. Unit has discharge door located at correct height to permit use of standard wheelbarrow. It has replaceable liners and paddles of high carbon steel. Shafts operating in anti-friction bearings are equipped with alemite lubricating units. Mixer is mounted on welded steel truck with 4 pneumatic-tired wheels. Towbar is provided on steerable front wheels. It is produced in 3, 5, 7 and 12 cu. ft. capacities.

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ALBERT

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Berry at North 13th Sts., Brooklyn 11, N. Y.
Phone: LVergreen 7-8100

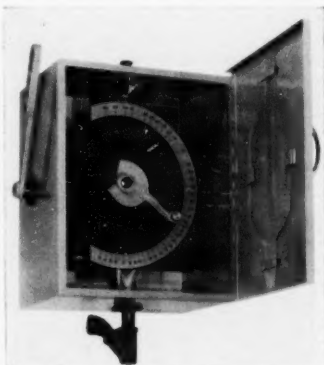
Saw Blade Pressure Adjustment—*Clipper Mfg. Co., 2811 Warwick St., Kansas City 8, Mo.* New feature of 1950 Clipper masonry saws is "Save-A-Blade" dial which adjusts blade pressure to soft, medium or hard position. It is quickly set for brick or tile; concrete products; glass and marble. All 9 models, except Model C, will be equipped with new dial and be available for free trial from factory branches.

Pump—*Blackhawk Manufacturing Co., Milwaukee 1.* Hand-operated pump, called "Power-Packer, Jr.," is offered in 3 capacities—P-146 for systems with maximum pressures up to 6,000 p.s.i., P-147, for intermediate pressures up to 5,000 p.s.i., P-148 for lower pressures up to 2,500 p.s.i. with greater displacement. Pump is rectangular shaped unit 6½" high, 3½" wide and 7¾" long. Length of handle is 17¾". Unit consists of pump, reservoir and control valve.

Wax Coating for Metal—*S. C. Johnson & Son, Inc., Racine, Wis.* New wax gives aluminum, steel, brass and other metals dry coating that is resistant to salt spray, humidity and outdoor exposure. Wax dries tack-free in less than 10 minutes and covers 2,000 to 2,500 sq. ft. per gal. It is applied by dip, brush, wipe or spray methods and when dry leaves transparent film on metal. It can be removed with ordinary solvents. Wax need not be removed before painting over metal surfaces, manufacturer states.

Automatic Dispenser for Air-Entraining Agents—*Techkote Co., Inglewood, Calif.* "Mach" dispenser operates by passing liquid agent through bag which is alternately opened and closed at top and bottom by tripping mechanism. Release can be actuated by hand or by mechanical means in connection with water discharge to concrete mix. Quantity dis-

charged can be dialed in units of ounces. There are no internal moving parts working in air-entraining agent, no air vents, no pistons, no packing glands or nuts. All working parts are made of stainless steel.



Techkote air-entraining agent dispenser

RENT A THOMAS HOIST

For Your Building Jobs
Direct From the Manufacturer

Since 1873, Thomas built hoists have been designed for dependable, economical service

Now Available—in Stock

The Thomas patented "Band Friction" grips positively, releases easily — ELIMINATES OPERATOR FATIGUE. The Thomas patented "Back-Up" brake requires no power, sets and releases automatically. QUICKLY INTERCHANGEABLE PARTS, and PROMPT, DEPENDABLE SERVICE means Thomas Hoists Keep the Job Going. One, two or three

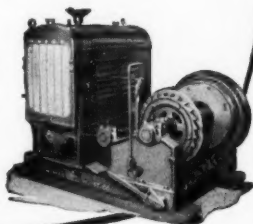
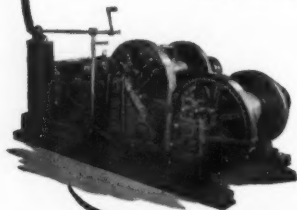
drum hoists up to 100 H.P. gasoline or electric powered.

Write now for NEW FOLDER No. 101 showing in detail the trips per hour normally obtainable with the various types of Thomas Hoists that are engineered to fit a particular job.

THOMAS HOIST CO.

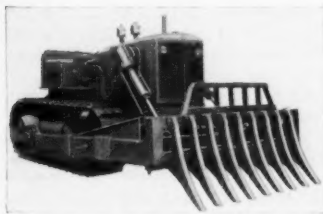
24 SOUTH HOYNE AVE., CHICAGO 12, ILL.

Phone Seeley 0303



NEW EQUIPMENT • MATERIALS

Root Ripper—Baker Manufacturing Co., 569 Stanford Ave., Springfield, Ill. Root ripper is designed for general land clearing operations and is offered as interchangeable attachment with cable and hydraulic bulldozers and graders, or as complete machine. Attachment consists of 9 teeth bolted to horizontal cross members rigidly tied together by brackets for attachment to bulldozer or grader frame. Teeth are one-piece steel castings, curved to produce rolling action to material handled so that dirt is shaken loose and filtered between teeth. Described in Bulletin 887 available from manufacturer.



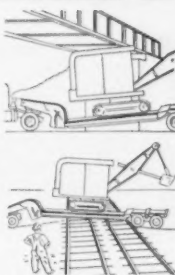
Baker root ripper

Powder-Actuated Tool—Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh. Feature of new "MSA Velocity-Power Driver" is spring-impelled firing pin which minimizes importance of speed and force of forward motion in firing stud-cartridge. Before cartridge can be fired, spring-loaded safety arm in handle has to be rotated 180° and held in that position. To prevent ricochet, stud is connected to cartridge by piston-like arrangement and is not detached until instant it is embedded in material. Stud piston and arresting block in muzzle help confine expanding gases inside barrel.

New Goodyear Plant

A one million dollar expansion and improvement program at Goodyear Tire and Rubber Company's St. Marys, Ohio, plant got under way early in May. The new building will house molded and extruded goods manufacture, warehousing and engineering services. It will be 170 feet wide and 660 feet long, giving 112,000 square feet of floor space. General contractor for the building is Clemmer Construction Co. of Akron, A.G.C.

The ROGERS 4-FEATURE POWER-LIFT DEMOUNTABLE GOOSENECK



STOOPS TO CLEAR LOW OVERHEAD OBSTRUCTIONS

RAISES ITS DECK TO CLEAR HIGH BANKED CROSSINGS



Patents Pending

EMBODYING A NEW AND VALUABLE FEATURE IN TRAILER SERVICE

It embodies the kind of versatility that makes every haul easier, faster, more profitable.

Loading, at a lower angle, is faster. Larger tires carry heavier loads legally. Unloading, reloading, detouring are avoided through quick adjustment of the deck height to different conditions encountered.

It's equally as rugged as the standard Rogers Gooseneck regardless of its detachable feature. And it's available on most Rogers Trailers and adaptable to many trailers of other makes.

Bring your equipment up-to-date and be in a position to handle operations more efficiently and more profitably.

Export Office: 50 Church St., N. Y. 7, N. Y. • Cable Address: "Rogers"

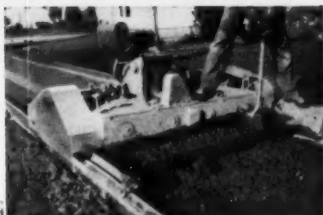
ROGERS TRAILERS

EXPERIENCE builds 'em
PERFORMANCE sells 'em

ROGERS BROTHERS CORPORATION, 223 Orchard St., ALBION, PA.

NOW! PAVE GUTTER, CURB and SIDEWALK INTEGRALLY with the DOTMAR PAVER

AT SPEEDS up to 10' per minute the Dotmar Speedmaster paves curb and gutter or curb, gutter and sidewalk. Simple extensions provide for paving sidewalk up to 60" wide.



Use it too for highway widening and highway dividing curb. Eliminates setting curb face forms. Pays for itself in first mile of paving. Does smooth job. Dozens in use. Qualified distributors in most cities. Send for Catalog 50. Ask for a demonstration.

Dotmar INDUSTRIES Inc.

515 Hanselman Bldg.

Kalamazoo, Mich.

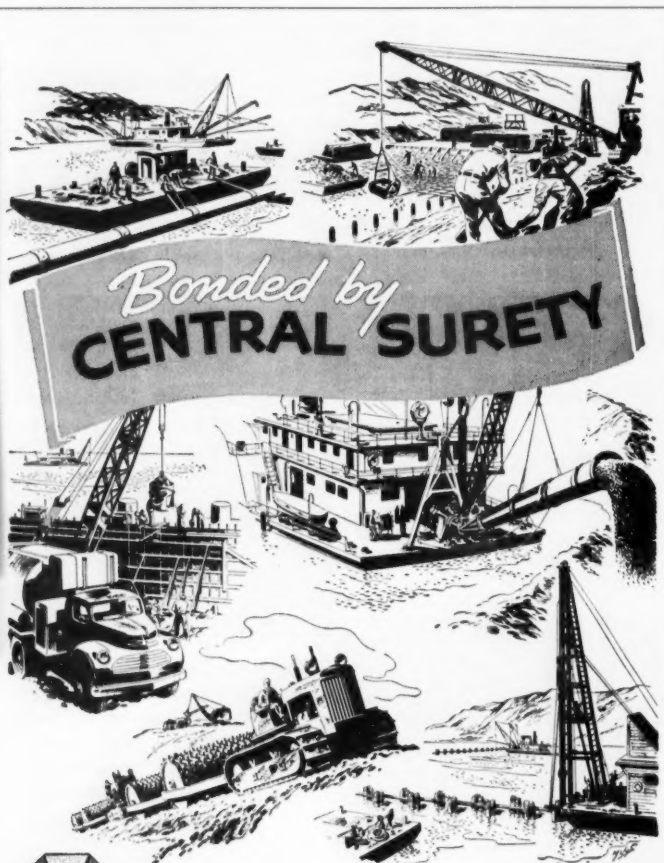
Hoists—Ohio Electric Mfg. Co., 5900 Maurice Ave., Cleveland 4. "Bob-Cat" electric cable hoists range in lifting capacity from $\frac{1}{2}$ to 5 tons. Motor is totally enclosed within cable drum. Load hook oscillates and swivels on roller bearings and is suspended on $\frac{5}{16}$ " preformed plow-steel cable. Designed for operation on 220, 380, 440 or 550-volt 3-phase, 60-cycle current, hoist is furnished with either pendant rope control or push-button control on pendant cable. Transformer in electrical supply line cuts voltage at control to 110 volts.

Ball Bearing Swivels—General Machine & Welding Works, 1100 E. 2d St., Pomona, Calif. Swivels for eliminating wire line twist and kinking consist of 15 types of end connections and 9 swivel capacities ranging from "AA" model, rated at 250 lbs. working load to "H" model at 46,200 lbs. These ball-bearing, angular-thrust swivels are used for lifting concrete buckets and demolition balls and for other types of single line hoisting. They are also used in connection with traveling blocks. Catalog available from manufacturer.

Asphalt Plant—Pioneer Engineering Works, Minneapolis 13. Model 51 "Continufluo" central-mix asphalt plant has rated capacity of 50 to 70 tons an hour and operates on continuous-process principle. It consists of 2 main units. On one are burner, combustion chamber, drier, dust-collector and fan. On other are gradation screen, 3-aggregate-compartment bin, mixer elevator, pug-mill and truck loading hopper. Each unit is mounted on pneumatically-tired chassis. Either steam atomizing or air atomizing burner is available. Plant is electric-motor-driven with individual motors for each functioning unit.

Pile Puller—Downs Crane & Hoist Co., 540 W. Vernon Ave., Los Angeles. Pile puller for extracting wood pilings, poles and posts is designed to adjust itself to any size or shape piling. Inner surface of puller consists of series of heavy knife edges for biting into pile transversely to grain of wood. It can be set in place on pile by hand or with assistance of pile line. Described in Catalog 200 available from manufacturer.

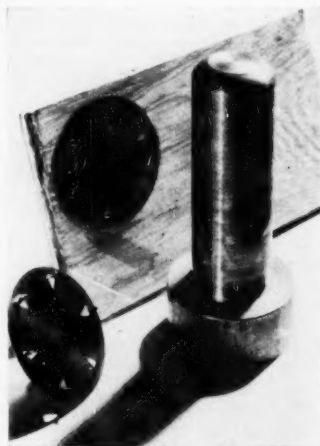
Cover for Holes in Plywood Forms—Troel Companies, Inc., 830 Chan-ning Way, Berkeley 2, Calif. Metal disc, called "ply hole cover," is constructed with barbs and when placed over hole is driven flush with surface of plywood by blow of hammer on magnetic setting tool. Covers come in 3 sizes: $1\frac{3}{4}$ ", $2\frac{1}{4}$ ", $2\frac{3}{4}$ " in diameter.



CENTRAL SURETY AND INSURANCE CORPORATION

R. E. McGINNIS, President

HOME OFFICE KANSAS CITY, MISSOURI



"Ply Hole Cover"

NEW EQUIPMENT • MATERIALS

Portable Compressors—*Worthington Pump & Machinery Corp., Construction Equipment Division, Holyoke, Mass.* Two "Blue Brute" 2-stage, air-cooled compressors with 30 cu. ft. capacity at 100 lbs. pressure have maximum operating pressure of 150 lbs. They are offered in 2 types: trailer model and hand truck model. Trailer model is 74 $\frac{5}{8}$ " long, 28" wide, and weighs 785 lbs. Hand truck model is 65 $\frac{1}{2}$ " long, 28" wide, and weighs 680 lbs. * Special 500" pipeline model compressor has standard engine and compressor unit mounted on pneumatic tires and is designed to operate in rough terrain and on steep inclines. It is equipped with special oil bath air cleaner, steep angle oil sump and heavy-duty replaceable cartridge oil filter.

Scoop—*Mixermobile Manufacturers, 8027 N. E. Killingsworth, Portland 20, Oreg.* Improved model of "Wagnermobile Duo-Way Scoop" has hydraulically controlled track and dozer blade. "Duo-Way" has 84" dozer blade at one end and one cu. yd. scoop at other. New model has special tilt control track which tilts 10° back or forward. Top section of tract folds down to 9'6".

Diesel Truck Engines—*The Buda Co., Harvey, Ill.* New 161 series 6-cylinder diesels are offered in 3 models: 6DAS-844 supercharged, 280 h.p.; 6DA-844, 215 h.p.; 6DA-779, 185 h.p. Displacement is 844 and 779 cu. ins. respectively. All 3 have same bore of 5 $\frac{1}{2}$ ". Stroke of 844 is 6 $\frac{1}{2}$ ", of 779, 6". They have new mono-lobe "Dyna-Swirl" combustion chambers designed to increase h.p.

Offer Safety Posters

Safety glasses, not personal glasses, should be worn on the job by workers. This is the theme of a new series of 10" x 13 $\frac{1}{2}$ " posters being released by American Optical Co., Southbridge, Mass. Designed to encourage workers to wear goggles, the posters point out that Rx safety glasses protect workers' eyes whereas personal glasses do not. In addition, personal glasses should not be exposed to hazards that may chip, crack or pit the lenses. Posters are available at all American Optical branch offices.

utility shed

or office building...



a single source of steel for both!

Above: the International all-purpose utility building, ideal as a tool shed, machine shop, storage shed or garage.

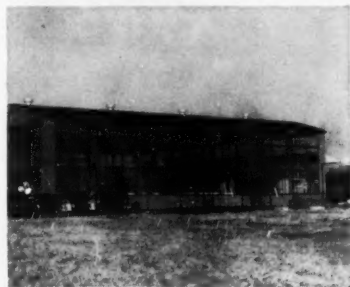
At Right: this 14-story office building used 1,624 tons of International steel. Welded construction throughout.



From a steel utility shed to an office building . . . your most diversified single source of structural steel is International.

International can give you a rugged all-steel building for use as a warehouse, storage or general utility . . . easily erected . . . easily moved with 100 percent salvage; or structural steel and miscellaneous iron for your general building jobs large or small.

International's single source responsibility assures you of on-time deliveries, cuts your costs and enables you to "button up" your jobs on schedule. Send a rough sketch or plans and specs for your building problem. We'll be glad to submit recommendations and quotations . . . at no cost to you.



Another typical International job was this refrigerator warehouse.

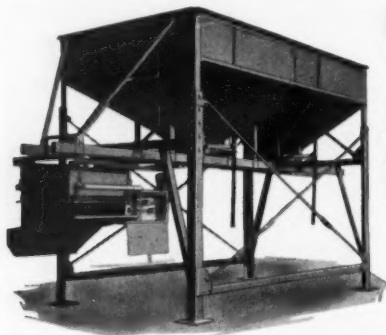
**SOURCE OF SUPPLY
RESPONSIBILITY
STANDARD OF QUALITY**

INTERNATIONAL STEEL COMPANY

1715 EDGAR STREET
EVANSVILLE 7, INDIANA

Trailer—Schuette Builders Co., Wausau, Wis. Heavy-duty trailer, for moving "assembly-line" houses, large equipment components, prefabricated structures, is constructed on unit principle, permitting assembly under load to be moved. Main frame girders are separate units and may be placed in desired position under load. Complete frame and burden is raised in single

effort, and adjustable pneumatic-tired wheels are placed in position on trailer cross beams. Trailer has 3-point suspension: semi-trailer type fifth wheel is used on front cross bar section of trailer frame and rocker shoe rocks laterally at right angles to frame, permitting right and left rear wheels to rise and fall without excessive distortion to frame.



Winslow BINANBATCH

—Reduces Your Job Cost

Use with a

105 - 115 - 145 - 165 Mixer

Complete—with scale for two or three aggregates.

With two or three overhead storage bins. For use on culvert—bridge—curbing—foundation jobs.

Wherever above size mixers are in operation.

PROMPT DELIVERY — WRITE OR WIRE

Manufactured by

WINSLOW SCALE CO.

TERRE HAUTE, IND.

Distributors Located throughout U.S.

Belt Conveyor—Rapids-Standard Co., Dept. USJA, 342 Rapistan Bldg., Grand Rapids 2, Mich. Gasoline-powered "Steve-dore, Jr." power belt conveyor is designed for service where electricity is not readily available. It is mounted on 2 pneumatic tires for towing behind truck. It is made in 10" and 16" belt widths and 11' and 13½' standard lengths, with other lengths up to 21' available. It operates at any belt pitch from horizontal to 33°. It will handle distributed loads up to 500 lbs., depending on pitch of belt. It is powered by 1½ h.p. Continental engine. Belt is operated through automatic centrifugal clutch giving speeds from 40' to 70' per minute. Accessories available include feeder sections, adjustable channel guard rails and trailer hitch.

Diesel Engine Fuel Pump—Cummins Engine Co., Columbus, Ind. New fuel pump is 65% lighter in weight and 56% smaller in size. Known as "DD" (double-disc) pump, it is offered as standard equipment on 300 h.p. model NHRS-600 and 275 h.p. model NHS-600 Cummins diesels. It is optional equipment on other Cummins models. Tandem arrangement is standard on 12-cylinder 400 h.p. model NVH-1200 and 550 h.p. model NVHS-1200. Design of pump enables unit replacement of fuel pressure pumps, distributor discs and governor assembly without removal of pump from engine.

the answer to ----- A CONTRACTOR'S PRAYER



KING

"540"

CONTRACTOR'S HOIST

ONLY
\$320
F.O.B.
Chicago

EARN'S ITS PAY EVERY DAY!

5 H. P. at 3200 R.P.M. has capacity of 750 lbs. at 200 ft. per minute. 28" wide, 31" long, 32" high. Spool 7" dia., 12½" long, for 5 16" or ¼" wire rope. Weighs 315 lbs.

Speeds up the materials handling part of building jobs... eliminates aching backs. Most practical and widely used contractors' hoist. Weighs only 315 lbs.—easy to roll and load. Simple, safe to operate. Built for continuous use.

"Other Sizes and Models Available."

KING MANUFACTURING CORPORATION
3152 W. CHICAGO AVENUE, CHICAGO 22, ILL.

Trucks—Federal Motor Truck Co., Detroit 9. "Style Liner" series of light and medium duty vehicles comprise 10 models with gross vehicle weights up to 21,500 lbs. and tractor-trailer weights up to 42,000 lbs. Eight wheelbase lengths are offered ranging from 126" to 250". Cab-to-axle dimensions are from 60½" to 174½". Cabs are wider and have increased visibility. Feature of line is "swing-lift" front fenders to permit greater accessibility to engine, accessories, steering and front brakes. Trucks have wider track front axles and shorter wheelbases. Front and rear springs have been lengthened. Choice is offered of several axles of varying capacities and ratios in single-speed, 2-speed and 2-speed double-reduction final drive. Four high-torque truck engines with ratings to 126 h.p. are available.

NEW EQUIPMENT • MATERIALS

Plastic Pipe—Carter Products Corp., 10155 Meech Ave., Cleveland 5. "Carlon" light-weight plastic pipe is available in flexible and rigid types and can be used for drinking water, drainage and irrigation systems, ventilating and cooling lines, hydraulic sluicing and intake and exhaust piping. It has applications in transmitting sludge, as low-pressure air lines and, in some installations, as both exposed and concrete-encased electrical wiring conduit. Flexible pipe is available in diameters up to 6" and lengths up to 400'; rigid pipe is furnished in diameters up to 8" and is shipped in 20' lengths. Flexible pipe can be curved to follow ditch line or irregular surface contour. Its rate of expansion is greater than that of freezing water, permitting installation above or below frost level. It is joined by fittings which permit plastic-to-plastic or plastic-to-metal connections. Rigid "Carlon" sections are joined by plastic sleeves which are painted with special cement and slipped over ends to be connected.



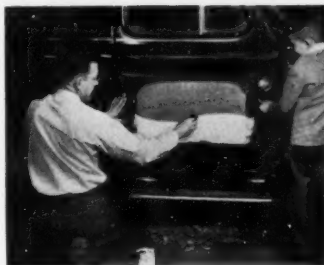
"Carlon" plastic pipe

Houses from Sacking

A British firm of manufacturers of cement spraying apparatus has recently developed a technique of constructing houses of sacking clad in foamed concrete. The firm is Aerocem, Ltd., of Chelsea, London. Aerocem structures consist of a slender frame of metal, timber or reinforced concrete. The frame is covered with hessian or any other available fabric. If extra strength is required, wire netting is placed in front of fabric and attached to frame. The whole is then sprayed with foamed or cellular concrete, making it a monolith cellular concrete structure.

THE CONSTRUCTOR, JULY 1950

Your EQUIPMENT IDENTIFICATION is Simple and Economical with PROCESS SCREEN PLATES



Illustrating the EASE and SPEED with which you can apply permanent identification to your equipment with perfect results.

For Industrial Application

Applied in Enamel Directly on Equipment. Thousands of Re-Applications.



Faster! More Economical! Easier to Apply!
And the result will last for years.

Below are examples of our clear cut, attractive and, above all, EASILY READ identifications built around your A.G.C. emblem.

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& CONSTRUCTION
CORP.

NEW ENG. & CONST. CORP.
BUFFALO, N.Y.

THE LEWIS & FRISINGER CO.
CONTRACTORS
ANN ARBOR, MICH.

MORRISON-KNUDSEN
CO. INC.

Barnes
CONSTRUCTION
COMPANY
GRAND RAPIDS, MICH.
JOHNSON BLDG. CO. INC.

GENERAL CONTRACTORS

We duplicate any design. We are especially proud of our results with duplication of trade marks
Write for details to either address

H. R. LAZENBY
Box 719 • Burwell, Nebraska

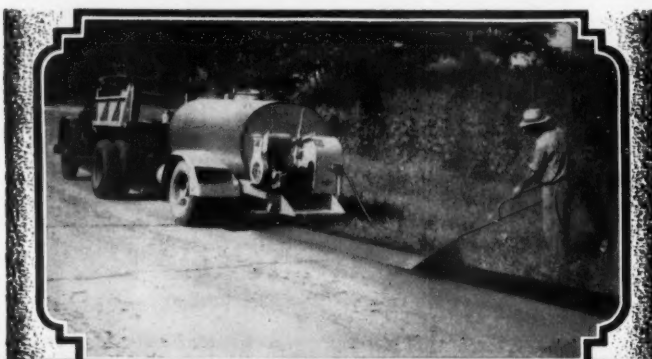
or

REINHART FAJEN
Box 115 • Warsaw, Missouri

Cranes—*These Shovel Co., Lorain, Ohio.* Two new "Moto-Cranes" are rated at 25 tons lifting capacity on outriggers at 10'. Mounted on rubber-tired carriers, machines have turntables powered by 6-cylinder gasoline engines. They are equipped with hydraulic coupling which permits raising and lowering loads at variable speeds under control of gas engine throttle.

Crane boom is of heavy-duty type, one-third wider and one-third deeper in cross section than previous "Moto-Crane" booms. Boom head is equipped with 3 main boom head sheaves plus auxiliary deflector sheaves that permit reeving up to 6 parts of hoist line without use of top block. Boom can be extended to 130' by 15' and 30' tip extensions. Two models are: MC-

504W, "wide track" with 3-axle carrier, 118" over-all width over rear tires with driving power applied to 2 rear axles as "6x4." Front driving axle may be installed to make it "6x6." Model MC-504 is identical with MC-504W except for narrower width of 102" over rear tires and availability only as "6x4" with power on 2 rear axles only.



STANDARD STEEL "S-J" for PATCHING — PRIME COAT — SEALING — SHOULDER REPAIR and CRACK FILLING

Built to The Highest
Standard

Compare These Special "S-J" Features:

- 1 SUCKS BACK surplus material into tank after spraybar is closed. Less drip! Means clean bar for next job!
- 2 PIPING and PUMP are automatically drained after finishing a job! This prevents "freezing" or slow start on heavy materials!
- 3 ALL OPERATIONS easily controlled by one operator riding the unit.
- 4 GRAVITY DRAW OFF ON CURB SIDE—means greater safety for operator!
- 5 ALL PARTS Readily Accessible for easy repair. Entire piping system can be taken down by unbolting only two circle flanges!

SAVES TIME and LABOR HANDLES ALL TYPES OF BITUMINOUS MATERIAL

★ For year round use—Standard Steel "S-J" Maintenance Distributor can be used either for emergency or secondary construction work.

The most adaptable piece of road equipment you can buy, the "S-J" performs many duties of heavier machines — such as building drives, alleys, playgrounds, parking areas, shoulders, reshaping curves as well as patching and sealing. Quick to start and get going, fast on the job, the low cost of this equipment will be paid for in reduced construction and maintenance cost in a single season. Get the facts and cost on the "S-J" before you invest in any similar equipment.

**WRITE FOR NEW
Catalog "S-J"**

SJ5

OTHER STANDARD STEEL PRODUCTS

Asphalt Pressure Distributors, Tar Kettles, Patch Rollers, Supply Tanks, Tool Heaters, Asphalt Tools, Street Flushers, Construction Brooms and Aggregate Spreaders.

Standard Steel Works, NORTH KANSAS CITY, MO.

Hot-Mix Plant—*Wayne Crane Division, American Steel Dredge Co., Fort Wayne, Ind.* "Monotrol" Model M-20 continuous bituminous hot-mix plant is designed for one-man control, with all functions electrically operated from single control panel. To provide accurate proportioning, each raw aggregate bin compartment has individually controlled volumetric-type feeder valve. Plant has 3-section rotating dryer. Several patented features on hot aggregate measuring bin and bitumen pump control maintain accuracy of mixture. Cut-type rotary mixing screw in pugmill coats aggregate thoroughly.

Masonry Saw—*Clipper Manufacturing Co., 2811 Warwick Trafficway, Kansas City 8.* 1950 Model HD saw has factory-sealed water pump which does not have to be disconnected when cutting dry. To switch from wet to dry cutting, operator turns pet cock on outlet of pump; V-belts do not have to be removed. New water application system of pump provides accurate control of water flow to cut. Saw handles masonry materials from 12" concrete blocks to 1" quarry tile.

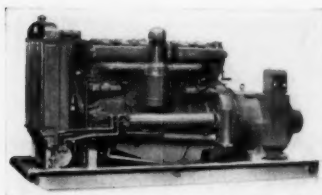
Booklet on Air Power

A new 18-page booklet containing extensive basic reference data on compressed air and gas power has been published by the Compressed Air and Gas Institute. It outlines how air is compressed, the machines employed in compressing air and gas and the basic principles of the utilization of air power. It is divided into three sections—uses of compressed air, theory of compressed air, types of compressors.

It is offered free of charge by Compressed Air and Gas Institute, Committee on Engineering Education, 1410 Terminal Tower, Cleveland 13, Ohio.

NEW EQUIPMENT • MATERIALS

Generator Sets—Murphy Diesel Co., 5333 W. Burnham St., Milwaukee 14. Line of diesel-electric generator sets has been expanded to 11 models ranging from 60 to 133 k.w. All models have heavy-duty Murphy Diesel engines and generators engineered as complete integral units and permanently aligned at factory. Design features of engines include "true" diesel operation, unit fuel injection, 4 valves per cylinder, extra-heavy crankshaft with extra-large bearings, oil-cooled pistons. Micro-control hydraulic governor maintains desired frequency and voltage under sudden load changes. Units are suited for parallel operation of 2 or more sets with manual or automatic switches. Bulletin 106, giving design details, specifications and dimensions, is available from manufacturer.



Murphy Diesel generator set

Crane Carriages—Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11. New series of "Maxi" 2-axle, all-wheel-drive carriers are one-man-operated and utilize power from crane engine for propulsion. They have travel speeds up to 10 m.p.h. They are available in all sizes to mount $\frac{3}{8}$ to $1\frac{1}{4}$ cu. yd. machines. Carriers are rubber-mounted.

Scaffold Support—Superior Scaffolding Co., 5634 Bankfield Ave., Culver City, Calif. Waler bracket is equipped with slot for guard rail uprights. Joints are welded and double hook and angle bearer eliminates swaying tendency. A 2"x4" extension pad may be slipped into bottom pocket so unit can be attached to bottom waler.

PRESTRESSED CONCRETE

A rational method of construction for elevated express highways, heavy underpasses, underground garages, containers and ducts carrying liquids.

L. COFF, Consulting Engineer, 198 Broadway, New York 7, N. Y., Cortland 7-2753

Announcing . . .
the new

MAXI MULTI-PURPOSE CARRIERS

2-AXLE

SUPER-TRACTION

ALL
WHEEL
DRIVE



Maxi Model CU-2.5-4x4 Carrier showing excavator type of crane mounting

ONE
MAN
OPERATED

Available for All Standard Makes of:

CRANES: 5 to 25 Ton Capacity

SHOVELS: $\frac{3}{8}$ to $1\frac{1}{4}$ Cu. Yd. Capacity

These CRANE CARRIERS are designed for Crane, Shovel, Trencher and the many other purposes for which crawler and truck-mounted excavator and boom-type machines are used.

This is a new series of MAXI CARRIERS, developed as a result of "User Demand" and years of scientific research.

For complete details, write or telephone:

SIX WHEELS INC.

Established
Manufacturers of
1594 East 20th Street
LOS ANGELES 11,

Since 1934
Products
MAXI
Telephone: PRospect 3141
CALIFORNIA



Electric Saw—*Independent Pneumatic Tool Co., Aurora, Ill.* "Silver Line" 6" portable saw features long shaft transverse motor mounting; die-cast aluminum housings; steel inserts for bearings and threads; built-in saw blower which blows from inside; steel rip guide with adjustments for any thickness of material; large switches; automatic ball-bearing blade-guard with rubber snubber; finger-tip control for depth and bevel cuts; complete ball-bearing construction. Described in Circular JE-1259 available from manufacturer.

Dampproofing Materials—*The Philip Carey Manufacturing Co., Cincinnati 15.* "Plasterbond" is non-fibrated liquid asphalt compound for coating interior of exterior masonry walls above grade. It dries with tacky, elastic film that permits plastering after 24 hours. It may be used with or without furring, will not bleed through plaster and has insulating effect by keeping walls dry. "Founda-

tion Coating" is for application to exterior masonry or concrete walls below grade. It can also be used as stone-backing on unexposed surfaces of cut stone set in concrete. Made of blend of pure asphalt, combined with solvents and resins, it dries to tough, elastic film. Both products come ready to use and can be applied by brush or compressed air spray methods.

Power Saw—*DeWalt, Inc., Lancaster, Pa.* Model GS radial arm power saw is mounted in pressed steel cabinet with recessed top to permit quick removal of saw unit, table and base. Cabinet can be equipped with shelves and drawers. Saw is equipped with 1/2 h.p. motor, can cut 2" thick material, cross-cut 12" wide and rip to center of 43" panel. It performs straight and bevel ripping, plowing, grooving, tenoning, sanding, dadoing, light metal cutting, mitering, cross-cutting.

Timken Describes Operations

The third volume of *The State of the Company*, a reprint of 55 radio talks made by members of The Timken Roller Bearing Co.'s management group, has been published by the company. These talks were broadcast over radio stations WHBC, Canton, Ohio, and WHKC, Columbus, Ohio, and were then printed and mailed to the company's 18,000 employees and to 5,000 civic leaders in the plant communities.

Each talk covers some phase of the company's operation or a statement of company policy. The talks were prepared for the information of Timken men and women so that they might better understand the enterprise in which they are engaged.

Copies are available to anyone interested in securing information about the Timken enterprise from the company at Canton, Ohio.

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Agencies Everywhere

NEW LITERATURE

Window—*Detroit Steel Products Co., 3143 Griffin St., Detroit 11.* Catalog presents "Fenestra" steel outside-inside trimmed residence case-unit window unit. It shows construction features of trim, gives installation details for frame, brick veneer or concrete block construction and shows use in various sizes and openings.

Forms—*Symons Clamp & Mfg. Co., 4249 Diversey Ave., Chicago 39.* Booklet, *General Directions for Setting Up Symons Wall Forms*, describes new developments in Symons forming system, including brace plates for use on 2"x4" braces which can later be used as horizontal supports on scaffolds, and panel with steel cross members for use in heavy pouring especially when vibrator is used.

Non-Ferrous Hardware—*Newman Brothers, Inc., Cincinnati 3.* Folder 71 presents line of bars and pulls in satin aluminum, Aluminized aluminum, bronze and polished or dull chrome-plate. Also presented are hand-chased bronze plaques, tablets, honor rolls, memorials and similar items.

Tractors—*Allis-Chalmers Manufacturing Co., Tractor Division, Box 512, Milwaukee 1.* Pocket-size catalog contains specifications and brief descriptions of each unit in company's industrial tractor line. Catalog emphasizes importance of buying equipment "to fit" job. • HD-19 crawler tractor is presented in 24-page catalog. Cut-away view shows features of tractor. Torque converter drive is explained. Features making for ease of operation are discussed. Cut-away views and specifications present G.M.'s 2-cycle diesel engine which powers HD-19. Special accessories are described.

Stud Welding—*Nelson Stud Welding Division, Morton Gregory Corp., Lorain, Ohio.* Eleven construction applications of stud welding are illustrated in folder. Uses shown include installation of roofing, siding, windows and decorative panels; insulation, electrical equipment; various types of reinforcing for concrete and gunite applications.

Wire Rope—*American Cable Division, Wilkes-Barre, Pa.* Folder presents "Streamlined Scraper Rope" and discusses its advantages and lists

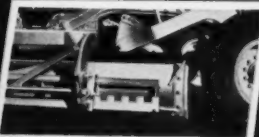


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all these EXTRA ADVANTAGES

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Other important advantages included in this unique WARCO combination:

- Exceptional operator comfort and visibility
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- Extra working clearances

When you buy, put your grader dollars where they will buy the most . . . invest in a WARCO. Ask your distributor to demonstrate.

WARCO 100 H. P. Heavy Duty Motor Grader . . . Model No. 4D-100

WARCO 76 H. P. General Duty Motor Grader . . . Model No. 4D-76

W. A. RIDDELL CORP., BUCYRUS, OHIO

BUILDERS OF WARCO MOTOR GRADERS • HERCULES ROAD ROLLERS

NEW LITERATURE

specifications of recommended types for scraper service.

Expansion Joint—*Keystone Asphalt Products Co., 43 E. Ohio St., Chicago 11.* Fiberglass expansion joint for concrete work is presented in folder which shows its uses in highways, sidewalks, canals and dams, airports, factory floors and bridges. Specifi-

cations are given and application details presented. Other leaflets offered present Keystone dummy joints, "Kapro 336" joint sealing compound and Keystone board for base plate protection against pumping joints.

Mixers—*Worthington Pump & Machinery Corp., Dunellen, N. J.* Worthington-Ransome "Blue Brute" con-

crete mixers, Models 11-S and 16-S, are presented in Bulletin R-217A. Recommended uses for each model are given, features are pictured and described, specifications are given. Photos show mixers at work.

Electric Tools—*Portable Electric Tools, Inc., 320 W. 83d St., Chicago 20.* Catalog 50A illustrates and describes line of "Hi-Power" and "Zephyr" drills, hand saws, paint sprayers, paint brush cleaners and drill kits. Complete specifications are given and information on attachments and accessories for drills.

Belt Conveyors—*Barber-Greene Co., Aurora, Ill.* Catalog RF presents "Redi-Fab" series of sectional truss belt conveyors. It gives typical applications, tells how to lay out conveyors, gives detailed specifications of all units in series. Accessories are listed.

Concrete Drill Bit—*Rotary Concrete Drill Co., 650 S. Arroyo Parkway, Pasadena 1, Calif.* Leaflet describes bits offered in 1/4" to 2" diameter. Illustrations and descriptions explain action. Table lists sizes offered, their speeds and pressures. Also offered is instruction sheet giving details of operation.

Metal Lath and Plaster Fire Resistive Ratings—*Metal Lath Manufacturers Assn., 636 Engineers Bldg., Cleveland 14.* All ratings on fire-resistive constructions utilizing metal lath and plaster are published in April issue of *Metal Lath News*. Listed are 89 fire resistance ratings ranging from one hour to 4 hours for various types of construction such as structural steel, steel joist floors, steel plate floors, cellular steel floors, reinforced concrete floors, wood joist floors, steel roof deck assemblies and numerous types of solid and hollow partitions.

Concrete Additive—*Sika Chemical Corp., 43 Gregory Ave., Passaic, N. J.* Illustrated booklet, *15 Steps to Better Concrete Construction*, gives detailed information and specifications on Sika compounds for concrete and masonry construction. Use of "Plastiment" retarding densifier to render structures resistant to water is described, and 14 additional materials for coating, sealing, hardening and repair work on concrete masonry are discussed. Architect's specifications are included.

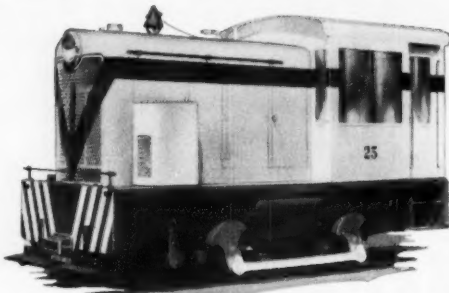
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NEW LITERATURE

Concrete Cutter—Felker Manufacturing Co., Torrance, Calif. Leaflet describes "Di-Met" segmented diamond abrasive wheels for cutting concrete streets and floors. Types of wheels offered for different types of concrete and gasoline powered machines offered to operate them are described. Illustrations show various types of jobs and case stories are given.

Concrete Inserts—Unistrut Products Co., 1013 W. Washington Blvd., Chicago 7. Bulletin CI-2 describes new concrete insert with continuous slot that permits attachment of fittings at any point along insert face without disturbing attachments previously made. Bulletin describes method of making inserts from short pieces of Unistrut channel and anchor-type drive-in end caps. Complete specifications and ordering information are included.

Grader—Huber Manufacturing Co., N. Greenwood St., Marion, Ohio. Bulletin G-139 presents heavy-duty diesel-powered grader with hydro-mechanical controls. It describes features of machine and their advantages and 2 engines which are offered.

Tractor-Compressor—LeRoi Co., Milwaukee 14. Bulletin T-16 describes "105 Tractair Mobilidril," shows it in action and gives complete specifications and dimension data.

Drive Speed Controls—Link-Belt Co., 307 N. Michigan Ave., Chicago 1. Automatic speed controls for Link-Belt P.I.V. variable speed drive are described in Bulletin 2349. It outlines 4 basic types—electronic, hydraulic, pneumatic, mechanical—and explains applications. Operating diagrams and photos are included.

Crane Carriages—Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11. Bulletin CC-8 presents 3-axle "cc" series of "Maxi" crane carriages. Long and short wheelbase models are listed and specifications given. Features of machines are pictured and described.

Hooks, Slings—Downs Crane & Hoist Co., 540 W. Vernon Ave., Los Angeles 37. Line of hooks, tongs, grips and slings are listed in Bulletin 200B. All items are illustrated and their capacities and sizes are listed.

Takes Work and Waste out of Placing Concrete



Mall 3 H.P. Electric Vibrator

Larger masses of concrete with aggregate up to 8 inches in diameter for piers, dams, tunnels, docks and other heavy construction, can be placed with speed and economy when a Mall 3 H.P. Electric Vibrator is on the job. The dust and vapor-proof motor is geared to deliver 10,000 vibration frequencies per minute, and twice its rated power on momentary overloads. Motor swivels full 360 degrees on low-base mounting. Unit is rugged and dependable. Equipped with tough rubber housings, famous interchangeable Hi-Kik vibrating heads and easy-coupling shafts.

32 Factory-Owned Service Stations from Coast to Coast provide quick, dependable repair service. Over 1,000 Mall Tools for a million jobs. A Dealer in any town can supply you. 30 years' experience manufacturing portable power tools.

Write Contractors Division for FREE booklet "Mall Vibrators" and name of nearest dealer.

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CONTROLLED . . . LIGHTWEIGHT . . . CONTRACTORS'
ELEVATOR . . . WITH MANY NEW FEATURES

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MICHIGAN

MANUFACTURERS' NOTES

Advertising campaigns of R. G. LeTOURNEAU, Inc., won a first place award in the 1950 competition for advertising in industrial publications sponsored by Associated Business Publications. A series of advertisements in LeTourneau's export advertising campaign took top honors, winning first place silver plaque award; and company won a certificate of merit for

its industrial advertising in another division of the contest.

The first of a series of events planned for this year to mark the golden anniversary of MACK TRUCKS, Inc., was held June 22 at the company's plant at Allentown, Pa. The board of directors met at Allentown for the first time in the company's

history. First of new golden anniversary Mack trucks—Model A—was launched.

CONCRETE TERMITE DRILL CO. of Pasadena, Calif., announces the opening of an office in the Empire State Building, New York, and the appointment of The Specialty Co. as sales agents for its drills for the entire country east of the Mississippi River.

PRESSED STEEL CAR CO. of Chicago recently purchased the C. R. JAHN Co. of Savanna, Ill. Manufacturing operations will be moved to Pressed Steel Car's Mount Vernon, Ill., plant while sales and executive offices will be located at 6 N. Michigan Ave., Chicago. Name of the Jahn organization has been changed to Jahn Trailer Division, Pressed Steel Car Co. C. R. Jahn, president, will be manager of sales of new company and his son Herbert Jahn, will remain in charge of trailer design.

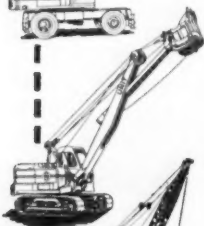
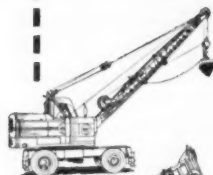
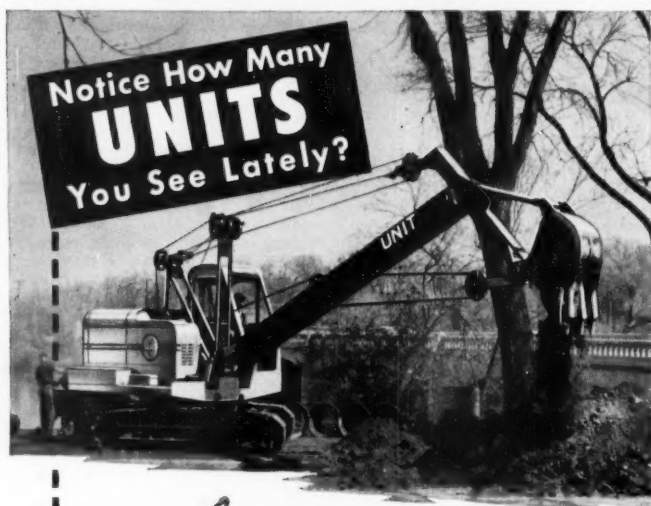
IOWA MANUFACTURING Co. has acquired the complete inventory, manufacturing rights and patents on the line of double impeller impact breakers, vibrating screens, roll crushers and feeders formerly made by New Holland Manufacturing Co. of Mountville, Pa. These products will now be manufactured at Cedar Rapids.

V. H. Dieterich, vice president and director of JOSEPH T. RYERSON & SON, Inc., has retired after more than 45 years with the company. Harold B. Ressler has been elected first vice president. He had been vice president and general manager of sales since 1932. C. L. Hardy, former assistant vice president, has been appointed assistant to the president. Thomas Z. Hayward, assistant general manager of sales since 1944, has been appointed general manager of sales.

Charles A. Butcher has joined WORTHINGTON PUMP AND MACHINERY CORP. as assistant to the president. He was formerly general manager of Crocker-Wheeler Electric Manufacturing Co. and vice president of its successive parent companies, Joshua Hendy Corp. and Elliott Co.

Manford R. Lillengreen has been appointed sales manager of BAER STEEL PRODUCTS, INC. He was for many years with H & L TOOTH Co.

John E. Jass has been appointed



Everywhere . . . on all types of jobs . . . you see UNITS operating at peak efficiency. They LIFT . . . LOAD . . . HAUL . . . DIG . . . with speed and precision, and with power to spare.

UNITS are chosen for the tough jobs because they are carefully engineered and ruggedly constructed, backed by a quarter century of experience building shovels and cranes exclusively. The new FULL VISION CAB provides maximum visibility. Operator sees in all directions. Promotes safety.

UNITS are available in $\frac{1}{2}$ and $\frac{3}{4}$ yard excavators and cranes up to 15 tons capacity. Crawler or mobile type. Fully convertible to ALL attachments . . . Diesel or gas engine. Write for literature.

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SHOVELS • DRAGLINES • CLAMSHHELLS
CRANES • TRENCHES • MAGNETS

assistant chief engineer of CATERPILAR TRACTOR Co. C. L. Kepner succeeds him as supervisor of tractor attachment design. Thomas M. Logan has become service development manager. Randall Roman is in charge of supervision of specifications for comparative analysis. Paul B. Benner is supervising engineer of all tractor chassis. Richard S. Frank has general supervision in the engine design division.

Obituary

H. O. K. Meister, general manager of the Hyatt Bearings Division of General Motors Corp., died June 10. He was 62 years old and had been general manager of the Hyatt plant since 1937.

To Speed Radio Permits

A plan to expedite the handling of applications for construction permits in the mobile radio services has been presented to the Federal Communications Commission by Eugene S. Goebel, national sales manager for Motorola's Communications and Electronics Division. The allocation of radio channels to mobile service applicants has been delayed seriously by a shortage of FCC personnel in the application processing department.

In view of this situation, Mr. Goebel suggested that it would appear logical that FCC allow radio station applicants, in the established mobile services, to place their stations in operation at once in full and complete compliance with FCC rules and regulations upon receipt of a S.T.A. (special temporary authorization) from FCC. The user would operate under the temporary authorization until the commission was able to make a final decision on the application.

Wood School Buildings

The one-story school of wood frame construction is a good answer to one of America's most pressing problems—the safe and adequate housing of school children. Timber Engineering Company says in a booklet, *School Buildings Your Tax Dollars Can Afford*.

The booklet presents pictures and data on such buildings in various communities. Tables of comparative costs show the economy of wood frame construction.

Report to Employees

Marquette Cement Manufacturing Co. has mailed to the homes of all its employees a booklet reporting on its operations in 1949. Entitled "One of Us Looks at Marquette's 1949 Record," the report is developed from the standpoint of an avowedly skeptical central character who states at the

outset, "I suppose the company and the stockholders got most (of the money)." This cynic then gets all the facts from the company's books, analyzes them in the light of simple logic, winds up satisfied that the business is being run on a sound basis.

Copies of the booklet are available from Jack K. White, director of public relations of Marquette at 20 N. Wacker Drive, Chicago 6, Ill.



1/2 and 3/4 YARD EXCAVATORS CRANES UP TO 15 TONS Fully Convertible

UNIT BUILT FOR ALL-AROUND Heavy-Duty Service

UNIT is tough! UNIT is versatile! That's why you can use UNIT on any type of job requiring shovel, clamshell, magnet, dragline, trencher, grapple or backfiller. And it's easy to change from one attachment to the other, right on the job. UNIT gives you all the power and speed you need, plus these exclusive features: Automatic traction brakes . . . Disc-type clutches . . . Drop forged alloy steel gears . . . Splined shafts . . . One-piece cast gear case . . . Straight-line engine mounting. Mobile and Crawler Models Available

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Manufacturers' addresses are listed on page 169

Air-Entraining Agents
A. C. Horn Co.

Building Papers
Sisalkraft Co.

Asphalt Plants (Portable)
Iowa Mfg. Co.
Standard Steel Works
White Mfg. Co.

Buildings (Steel)
Allied Structural Steel Cos.
American Bridge Co.
Armeo Drainage & Metal Products
Clinton Bridge Works
Gage Structural Steel Co.
International Steel Co.
Macomber, Inc.
Midland Structural Steel Co.
Smooth Ceilings System
Truscon Steel Co.

Axles (Truck)
Eaton Mfg. Co., Axle Division

Backfillers
Bucyrus-Erie Co.
Cleveland Trencher Co.
Harnischfeger Corp.
Parsons Co.
Unit Crane and Shovel Corp.

Bulldozers
J. D. Adams Mfg. Co.
Baker Mfg. Co.
Bucyrus-Erie Co.
LaPlant-Chouteau Mfg. Co.
R. G. LeTourneau, Inc.

Batchers
Blaw-Knox Division
Butler Bin Co.
Construction Machinery Co.
Heltzel Steel Form & Iron Co.
C. S. Johnson Co.
Winslow Scale Co.

Canvas Covers
Canvas Fabricators, Inc.

Bearings (Anti-Friction, Tapered Roller)
Hyatt Bearings Division
Timken Roller Bearing Co.

Car Pullers
Clyde Iron Works

Bins
Blaw-Knox Division
Butler Bin Co.
Heltzel Steel Form & Iron Co.
Iowa Mfg. Co.
Irvington Form & Tank Corp.
C. S. Johnson Co.
Universal Engineering Corp.
Winslow Scale Co.

Carriages for Cranes, Shovels (Pneumatic)
Six Wheels, Inc.

Ceilings
Smooth Ceilings System

Cement (Common and Special)
Lehigh Portland Cement Co.
Lone Star Cement Corp.
Marquette Cement Mfg. Co.
Universal Atlas Cement Co.

Bits (Detachable Drill)
Concrete Termite Drill Co.
Ingersoll-Rand Co.
Joy Mfg. Co.
Timken Roller Bearing Co.

Cement (White)
Trinity White, General Portland Cement Co.
Universal Atlas Cement Co.

Blades (Grader, Maintainer, Snow Plow, Bulldozer, Scarifier)
Shunk Manufacturing Co.

Clamps (Hose)
Dixon Valve & Coupling Co.

Blasting Accessories
Atlas Powder Co.

Compressors
Allis-Chalmers Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Mfg. Co.

Bridges
American Bridge Co.
Armeo Drainage & Metal Products

Buckets (Clamshell & Dragline)
Blaw-Knox Division
Bucyrus-Erie Co.
Harnischfeger Corp.
C. S. Johnson Co.
Owen Bucket Co.
Pettibone Mulliken Corp.
Wellman Engineering Co.

Concrete Curing Material
A. C. Horn Co.
Sisalkraft Co.

Buckets (Concrete)
Blaw-Knox Division
Construction Machinery Co.
Heltzel Steel Form & Iron Co.
Jaeger Machine Co.
Owen Bucket Co.

Concrete Mixers, Pavers, Tampers
Chain Belt Co.
Construction Machinery Co.
Foote Co.
Jaeger Machine Co.
Knickerbocker Co.
Koehring Co.
Kwik-Mix Co.
T. L. Smith Co.
Worthington Pump & Machinery Corp.—Ransome Div.

ADVERTISERS' PRODUCTS

Concrete Surfacers

Concrete Surfacing Machinery Co.

Concrete Vibrators

Concrete Surfacing Machinery Co.
Electric Tamper & Equipment Co.
Ingersoll-Rand Co.
Mall Tool Co.
White Mfg. Co.

Conveying Machinery

Chain Belt Co.
Iowa Mfg. Co.
Joy Mfg. Co.
Link-Belt Co.
Universal Engineering Corp.

Cranes

Austin-Western Co.
Bay City Shovels, Inc.
Bucyrus-Erie Co.
Cleveland Trencher Co.
Clyde Iron Works
Harnischfeger Corp.
Koehring Co.
R. G. LeFournier, Inc.
Link-Belt Speeder Corp.
Marion Power Shovel Co.
Michigan Power Shovel Co.
Northwest Engineering Co.
Unit Crane and Shovel Corp.

Crushing Machinery

Allis-Chalmers Co.
Austin-Western Co.
Iowa Mfg. Co.
Universal Engineering Corp.

Culverts

Albert Pipe Supply Co.
Armco Drainage & Metal Products
Johns-Manville Corp.

Curb & Gutter Pavers

Dotmar Industries, Inc.

Cutters (Abrasive)

Skilsaw, Inc.
Wodack Electric Tool Corp.

Decking (Roof Steel & Aluminum)

Macomber, Inc.

Derricks

Clyde Iron Works

Doors (Metal, Wood)

Ceco Steel Products Corp.
Detroit Steel Products Co.
Fox Bros. Mfg. Co.
International Steel Co.
Kinnear Mfg. Co.
Newman Brothers, Inc.
Truscon Steel Co.

Dredging Machinery

Bucyrus-Erie Co.
Ellicott Machine Corp.
Harnischfeger Corp.
Marion Power Shovel Co.
Northwest Engineering Co.
Thomas Hoist Co.

Drills & Drilling Machinery

Bucyrus-Erie Co.
Concrete Termite Drill Co.
Independent Pneumatic Tool Co.
Ingersoll-Rand Co.
Joy Mfg. Co.
Timken Roller Bearing Co.

Drills (Electric)

Ingersoll-Rand Co.
Skilsaw, Inc.
Wodack Electric Tool Corp.

Dump Bodies

Anthony Co.

Elevators (Material)

Chain Belt Co.
Iowa Mfg. Co.
Link-Belt Co.
Smith's Hoist & Mfg. Co.
Universal Engineering Corp.

Engines

Allis-Chalmers Tractor Div.
Caterpillar Tractor Co.
Continental Motors Corp.
Cummins Engine Co.
Detroit Diesel Engine Division
Harnischfeger Corp.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
Murphy Diesel Co.
Waukesha Motor Co.

Expansion Joints

Laclede Steel Co.

Explosives

Atlas Powder Co.

Fasteners (For Steel, Concrete)

Stemco Corp.

Finishing Machines (Bituminous)

Blaw-Knox Division
Foote Co.

Finishing Machines (Concrete)

Blaw-Knox Division

Floor Construction

Smooth Ceilings System

Flooring

Johns-Manville Corp.
Truscon Steel Co.

Forms (Concrete) and Accessories

Carl Besch Co.
Blaw-Knox Division
Economy Forms Corp.
Elis Equipment Co.
Heltzel Steel Form & Iron Co.
A. C. Horn Co.
Irvington Form & Tank Corp.
Richmond Screw Anchor Co.
Joseph T. Ryerson & Son, Inc.
Superior Concrete Accessories, Inc.
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.
Williams Form Engineering Corp.

it's a
"two-
bagger"



A name that has only one meaning in baseball could have several meanings in a concrete mixer.

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CONSTRUCTION MACHINERY CO.
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THE FOOTE CO., INC.
Nunda, N. Y.

THE JAEGER MACHINE CO.
Columbus, Ohio

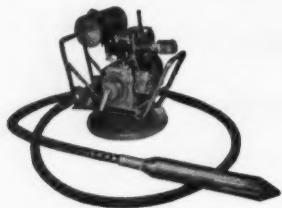
THE KNICKERBOCKER CO.
Jackson, Mich.

KOEHRING COMPANY
Milwaukee, Wis.

KWIK-MIX COMPANY
Port Washington, Wis.

THE T. L. SMITH COMPANY
Milwaukee, Wis.

WORTHINGTON PUMP & MACHINERY CORP.
Ransome Division, Dunellen, N. J.



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which have made them highly successful all over the world.
DEPENDABLE FLEXIBLE DRIVE. All sections are interchangeable, in multiples of 7' and 12' lengths. No special sections are required. Each casing has ball bearing connector. Each alloy steel core has slip joint which does not separate in service. It prevents stretching and overheating. No limit to length of drive.

RELIABLE VIBRATING HEADS. Also interchangeable and can be applied to any drive section. Heads can be opened for repairs. Rotor mounted on double row ball bearings. Alloy steel external ribs reduce wear.

STANDARD POWER UNITS. Well-known gasoline engines and electric motors. Can be serviced almost everywhere.

CONCRETE GRINDERS. Speed reducing heads, to hold wheels, can be attached to any drive section.

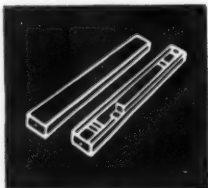
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yesterday's equipment!**



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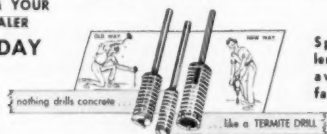
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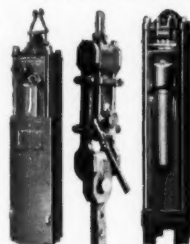
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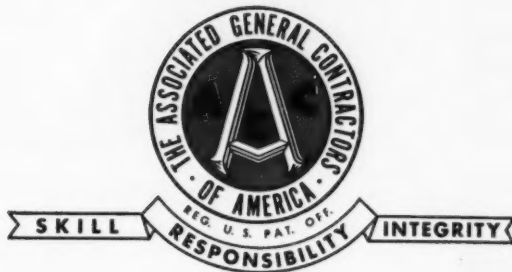
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INDEX

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(Directors continued on page 176)

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(Cooperative Construction Bureau Committee continued on next page)

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 Anderson, Jack E., Rockford, Ill. (12b)
 Anderson, L. C., Co., San Diego, Calif. (4c)
 Anderson & Loer, Evansville, Ind. (13b)
 Anderson, O. E., San Jose, Calif. (4a)
 Anderson, P. J., & Sons, Seattle, Wash. (46a)
 Anderson & Veatch, Inc., Evansville, Ind. (13b)
 Anderson, W. D., Co., Austin, Texas (42k)
 Andersons', Inc., Charleston, W. Va. (47a)
 Andrew & Dawson, Montgomery, Ala. (1a)
 Andrus, M. R., Beaumont, Texas (42h)
 Andry & Voss, New Orleans, La. (17a)
 Angelle, Robt., Breaux Bridge, La. (17f)
 Angle, Chas. W., Inc., Greensboro, N. C. (32a)
 Anglin, Ross, Austin, Texas (42f)
 Ankrom & Castin, Parkersburg, W. Va. (47a)
 Ann Arbor Constr. Co., Ann Arbor, Mich. (21c)
 Ansoo Constr. Co., Inc., Long Beach, Calif. (4d)
 Apfelbach, Henry J., Mobile, Ala. (1a)
 Arborio, John, Inc., Poughkeepsie, N. Y. (31d)
 Archer Bros., Inc., Atlanta, Ga. (10a)
 Archibald, F. R., Oakland, Calif. (4b)
 Archibald, J. O., Redwood City, Calif. (4b)
 Arco Co., Atlanta, Ga. (10a)
 Arenz, Theo. & J. M., Portland, Oreg. (36a)
 Argentieri & Colarossi, Seattle, Wash. (46a)
 Argentieri Constr. Co., Providence, R. I. (38a)
 Ariss-Knapp Co., Oakland, Calif. (4b)
 Arizona Sand & Rock Co., Phoenix, Ariz. (2a)
 Arkwright, Stanley H., Inc., Billings, Mont. (25a) (49a)
 Armagost, Walter, Constr. Co., Wichita, Kans. (15a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

Armco Drainage & Metal Prods., Inc., Middletown, Ohio (34b)
 Armiger Constr. Corp., Baltimore, Md. (19a)
 Armston, W. H., Co., Inc., Dunedin, Fla. (9c)
 Armstrong & Armstrong, Roswell, N. Mex. (30a) (42f)
 Armstrong & Armstrong, Wenatchee, Wash. (46b)
 Armstrong Constr. Co., Kingsport, Tenn. (41e)
 Armstrong, J. D., Co., Inc., Ames, Iowa (14a)
 Armstrong, J. R., El Cerrito, Calif. (4b)
 Arney, Arthur J., Pine Bluff, Ark. (3a)
 Arnold Constr. Co., Palm Beach, Fla. (9e)
 Arnold, L. G., Inc., Eau Claire, Wis. (48b)
 Arnold, Lewis W., Mexico, Mo. (24b)
 Arrington Constr. Co., Idaho Falls, Idaho (11a)
 Arrow Petroleum Co., Forest Park, Ill. (12c)
 Arthur & Allen, Pueblo, Colo. (5b)
 Arthur Bros., Kingsville, Texas (42i)
 Artley Co., Savannah, Ga. (10a)
 Artukovich Bros., Inc., Paramount, Calif. (4d)
 Artukovich, P. & J., Inc., Los Angeles, & Port Chicago, Calif. (4b) (4d)
 Arundel Corp., The, & L. E. Dixon Co., San Gabriel, Calif. (4b)
 Arute Bros., Inc., New Britain, Conn. (31d)
 Arzani, Victor C., Contr. Co., Syracuse, N. Y. (31d)
 Ashbach, Otto B., & Sons, Inc., St. Paul, Minn. (22a)
 Ashby & Opperman, Bakersfield, Calif. (4a)
 Asheville Contr. Co., Asheville, N. C. (32a)
 Ashmore Bros., Inc., Greenville, S. C. (32a)
 Ashworth & Son Co., Minneapolis, Minn. (22a) (40a)
 Askevold Constr. Co., Inc., Missoula, Mont. (25b)
 Asphalt Paving & Engr. Co., Tacoma, Wash. (46d)
 Asphalt Paving Materials Co., Los Angeles, Calif. (4d)
 Asphalt Roadways Co., Buffalo, N. Y. (31d)
 Asphalt Service Co., Baltimore, Md. (19b)
 Asplund Constr. Co., Enid, Okla. (15b) (42j)
 Assenmacher, W. J., Co., Lincoln, Nebr. (26a)
 Associated Constr. Co., The, Hartford, Conn. (6a)
 Associated Engrs., Palo Alto, Calif. (4b)
 Associated Pipe Line Contrs., Inc., Houston, Texas (42m)
 Associated Pipeline Welders, Inc., Colma, Calif. (4b)
 Associated Sand & Gravel Co., Everett, Wash. (46a)
 Asta Constr. Co., Rio Vista, Calif. (4b)
 Atchison, R. R., Co., The, Englewood, Colo. (5b)
 Atherton Constr. Co., Seattle, Wash. (46b)
 Atkin-Fordon Co., Detroit, Mich. (21a)
 Atkinson, C. H., Paving Co., Inc., Chillicothe, Mo. (14a) (15b) (24b)
 Atkinson, Guy F., Co., South San Francisco, & Long Beach, Calif.; Portland, Oreg.; Seattle, Wash. (N) (4b) (4d) (25a) (36a) (46a) (46c) (46d)
 Atkinson & Jones Co., Richland, Wash. (46c)
 Atlantic Bitulithic Co., Richmond, Va. (32a)
 Atlantic Bldg. Corp., Columbia, S. C. (32a)

Atlantic Constr. Co., Inc., Des Moines, Iowa (14a)
 Atlantic County Constr. Co., Atlantic City, N. J. (29a)
 Atlas Constr. Co., Waxahachie, Texas (23a)
 Atletwed, F. C., St. Clair, Mich. (21c)
 Auchter, Geo. D., Co., The, Jacksonville, Fla. (9a)
 Audish, I. G., Houston, Texas (42d)
 Austin Bridge Co., Dallas, Texas (42f)
 Austin, E. E., & Son, Erie, Pa. (37a)
 Austin, John R., Constr. Co., Denver, Colo. (5b)
 Austin Road Co., The, Dallas, Texas (42f)
 Austin, Robt. W., Seattle, Wash. (46a)
 Ayling Asphalt & Paving Co., Adrian, Mich. (21c)

B

B. D. & W., Inc., Carlisle, Pa. (37a)
 B & M Constr. Co., Oklahoma City, Okla.; Seattle, Wash. & Ladd Field, Alaska (42j) (46a) (50a)
 B & Q Constr. Co., New Orleans, La. (17a)
 B. & R. Constr. Co., San Francisco, Calif. (4a)
 B & W Constr. Co., Inc., Baltimore, Md. (19b)
 Baab Constr. Co., Greeley, Colo. (5b)
 Babcock, W. C., Constr. Co., Rensselaer, Ind. (13a)
 Babler Bros., Portland, Oreg. (36a)
 Babler Bros. & Rogers Constr. Co., Portland, Oreg. (50a)
 Bacco Constr. Co., Iron Mountain, Mich. (21c)
 Bachmann, Geo., Camden, N. J. (37d)
 Bader, J. A., & Co., Inc., Wilmington, Del. (7a)
 Bader, J. A., II, Wilmington, Del. (7a)
 Badraun, J. J., Seattle, Wash. & Girdwood, Alaska (46a) (50a)
 Baer, Paul M., & Son, Los Angeles, Calif. (4d)
 Bagnall, C. B., Torrance, Calif. (4d)
 Bahen, Jos. B., Constr. Co., Inc., Washington, D. C. (8a)
 Bahr Constr. Co., Manitowoc, Wis. (48b)
 Bailey Constr. Co., Greenville, S. C. (32a)
 Bailey & Northum, Inc., Ft. Smith, Ark. (3a)
 Bailey, Wm. M., Co., Boston, Mass. (20b)
 Bair, Roy L., & Co., Spokane, Wash. (46c) (46e)
 Baker Bros., Chico, Calif. (4d)
 Baker & Coombs, Inc., Morgantown, W. Va. (47a)
 Baker, Earl W., Co., Oklahoma City, Okla. (42j)
 Baker, G. W., Holton, Kans. (15b)
 Baker & Hickey Co., The, Columbus, Ohio (34b)
 Baker, Jack W., Long Beach, Calif. (4d)
 Baker, Myron, Gilmore City, Iowa (14a)
 Baker, Roy, Ozawkie, Kans. (15b)
 Baker, W. E., Constr., West Durham, N. C. (32a)
 Baker, Wm. D., Co., Philadelphia, Pa. (37d)
 Bakker Constr. Co., San Bernardino, Calif. (4d)
 Baldwin Bros. Paving Co., Cleveland, Ohio (37c)
 Baldwin Co., The, Little Rock, Ark. (3a)
 Baldwin, L. E., Inc., Seattle, Wash. (46b) (50a)
 Baldwin, Straub Corp., San Rafael, Calif. (4b)
 Ball, N. M., Sons, Berkeley, & Alhambra, Calif. (4b) (4d)
 Ball, N. M., Sons-Harms Bros., Earl Parker, Inc., Los Angeles, Calif. (4d)
 Ball, R. F., Constr. Co., Inc., Houston, Texas (42d) (42i)
 Ball & Simpson, Berkeley, Calif. (4b)
 Ballard Constr. Co., Salt Lake City, Utah (43a)
 Ballenger Paving Co., Greenville, S. C. (32a)
 Ballinger, R. C., Co., Philadelphia, Pa. (37d)
 Ballou Constr. Co., Lumberton, N. C. (32a)
 Baltes, A. J., Inc., Norwalk, Ohio (34d)
 Baltimore Asphalt Block & Tile Co., Baltimore, Md. (19b)
 Baltimore Contrs., Baltimore, Md. (19a)
 Bancheri, Chas., Hammonton, N. J. (29a)
 Bangert Bros. Constr. Co., Overland, Mo. (24c)
 Bank Bldg. & Equip. Corp. of America, St. Louis, Mo. & San Francisco, Calif. (4d) (24c)
 Banta Constr. Co., Harper, Kans. & Oklahoma City, Okla. (15b) (35b)
 Barbarossa & Sons, Inc., St. Cloud, Minn. (22a)
 Barber Bros. Co., Baton Rouge, La. (17e)
 Barber, E. E., Constr. Co., Ft. Smith, Ark. (35b)
 Barber, Walter H., La Mesa, Calif. (4c)
 Barbettini, E., San Francisco, Calif. (4b)
 Barbour & Short, Norman, Okla. (35a)
 Barcus, L. G., & Sons, Kansas City, Kans. (15b)
 Bardell, Robt., Oakland, Calif. (4a)
 Bares, Ted, Constr. Co., The, Oakland, Calif. (4b)
 Barge-Thompson Co., Atlanta, Ga. (10a) (32a)
 Barger Constr. Co., Inc., Mooresville, N. C. (32a)
 Barker, Ellis W., Co., Salt Lake City, Utah (43a)
 Barker, J. B., Co., Lufkin, Texas (42k)
 Barker-Rose Constr. Co., Marshalltown, Iowa (14a)
 Barker, Walter H., Inc., Taunton, Mass. (20b)
 Barletta, Rocci, San Jose, Calif. (4b)
 Barnes, Andrew T., Cass City, Mich. (21c)
 Barnes Constr. Co., Grand Rapids, Mich. (21b)
 Barnes, H. D., Inc., Greensboro, N. C. (32a)
 Barnes, Jas. I., Constr. Co., Logansport, Ind. & Santa Monica, Calif. (4d) (13b)
 Barnes, Jos. L., San Francisco, Calif. (4a)
 Barnes-Mattison, Inc., Minneapolis, Minn. (22a)
 Barnes, W. M., Co., Los Angeles, Calif. (4d)
 Barnett, Pernel, Orange, Calif. (4d)
 Barney, W. J., Corp., New York, N. Y. (L) (6a) (31c)
 Barnhart & Wheeler, Pocatello, Idaho (11a)
 Barr & Barr, Inc., New York, N. Y. (31c)
 Barr, C. M., Company, Columbus, Ohio (L)
 Barr, G. W., Constr. Co., Tacoma, Wash. (46d)
 Barrett, Albert E., Trenton, N. J. (29a)

- Barrett & Hilp, San Francisco, & Los Angeles, Calif. (4a) (4d)
- Barringer Bros., Richfield, N. C. (32a)
- Barrus Constr. Co., Kingston, N. C. (32a)
- Barry Co., The, Detroit, Mich. (21a)
- Barth Constr. Co., Pittsburgh, Pa. (37c)
- Bartholomew, B. W., Charlotte, N. C. (32a)
- Bartholomew, J. G., Dallas, Texas (42j)
- Bartholow, W. E., & Son Constr. Co., Huron, S. Dak. (40a)
- Bartlett-Brainard Co., Hartford, Conn. (6a)
- Bartley & Binnings, New Orleans, La. (17a)
- Bartram-Malow Co., Detroit, Mich. (21a)
- Bartram, Wilmer W., Grandview, Wash. (46b)
- Baruch Corp., Los Angeles, Calif. (4d)
- Basanda Constr. Co., Oklahoma City, Okla. (35a)
- Basich Bros. Constr. Co., San Gabriel, Calif. (4d)
- Bass Constr. Co., Gainesville, Fla. (9a)
- Bass, D. C., & Sons Constr. Co., Enid, Okla. (15a) (35a)
- Bass Engr. & Constr. Co., Birmingham, Mich. (21a)
- Bass, G. E., & Co., Jackson, Miss. (23b)
- Bass, Jos. A., Co., Minneapolis, Minn. (22a)
- Bassett Constr. Co., Inc., Wichita, Kans. (15b)
- Batchelder & Hazen, Fairbanks, Alaska (50a)
- Bate, Thos., & Sons, Houston, Texas & Denver, Colo. (5a) (42d) (42j)
- Bateman, J. C., Inc., San Jose, Calif. (4b)
- Bates & Rogers Construction Corporation, Chicago, Ill. & San Francisco, Calif. (N) (4b) (12c)
- Baton, Henry E., Inc., Philadelphia, Pa. (37d)
- Batson-Cook Co., Inc., West Point, Ga. (10a)
- Bauer Bros. Constr. & Supply Co., Belleville, Ill. (12d)
- Bauer Constr. Co., Inc., Milwaukee, Wis. (48a)
- Bauer, Martin L., Construction Company, Middletown, Ohio (L)
- Baugh Co., The, Seattle, Wash. (46b)
- Baugh & Scott, San Antonio, Texas (42e)
- Baughman & Blair, Rochester, N. Y. (31d)
- Baughman, Roy, Oklahoma City, Okla. (35b)
- Baulne & Frieske, Spokane, Wash. (46c)
- Bauman, W. C., Co., Portland, Oreg. (36a)
- Baumann, Geo. E., Nevada, Mo. (15a)
- Baumeister, Wm., Constr. Co., St. Paul, Minn. (22a)
- Baun, Ted F., Fresno, Calif. (4b)
- Baxter Constr. Co., Houston, Texas (42d)
- Bay City Constr. Co., Mobile, Ala. (1a)
- Bay Constr., Inc., Seattle, Wash. (46a)
- Bay State Dredg. & Contr. Co., East Boston, Mass. (20a)
- Bays Mountain Constr. Co., Kingsport, Tenn. (41e)
- Beacon Constr. Co., Allston, Mass. (20b)
- Beall, I. G., Phoenix, Ariz. (2a)
- Beals, A. C., Co., Providence, R. I. (38a)
- Bear Bros., Inc., Montgomery, Ala. (1a)
- Beattie Corp., The, Fall River, Mass. (20a)
- Beauchamp, Victor R., Inc., Washington, D. C. (8a)
- Beaumont Constr. Co., Beaumont, Texas (42b)
- Beaver Asphalt Paving & Constr. Co., New Brighton, Pa. (37c)
- Bechtel Corp., San Francisco, & Los Angeles, Calif. (4b) (4d) (42m)
- Bechtel, T. R., Constr. Co., Oakland, Calif. (4b)
- Beck, Henry C., Co., Atlanta, Ga. & Dallas, Texas (10a) (42a)
- Beck, O. J., & Sons, Corpus Christi, Texas (42i)
- Beckelheimer, W. T., Jackson, Miss. (23b)
- Beckenhauer Bros., Norfolk, Nebr. (26a)
- Becker Constr. Co., Newark, N. J. (L)
- Becker, H. L., & Co., Seattle, Wash. (46b)
- Becker, Peter, Calumet City, Ill. (13b)
- Becker, Roland H., Inc., Elm Grove, Wis. (48a)
- Beckering Constr. Co., Grand Rapids, Mich. (21b)
- Beckett & Federighi, Oakland, Calif. (4a)
- Beckham, E. M., Constr. Co., Perry, Ga. (10a)
- Beckman, J. H., Constr. Co., Sioux Falls, S. Dak. (40a)
- Becksmith Engr. Co., Pittsburgh, Pa. (37c)
- Bedders, Wm. E., Brookline, N. H. (28a)
- Beebe, Del R., Constr. Co., Eugene, Oreg. (36a)
- Beerman & Jones, Sonora, Calif. (4b)
- Beers Constr. Co., Atlanta, Ga. (10a)
- Beers, Gilbert, Atlanta, Ga. (10a)
- Behrens Constr. Co., Beatrice, Nebr. (26b)
- Bell, Braden, Barker & Gilvin, Amarillo, Texas (42f)
- Bell-Erhard & Co., Clovis, N. Mex. (30b)
- Bell, R. J., & Co., Kilgore, Texas (42n)
- Bell, Ralph A., Monrovia, Calif. (4b)
- Bell, W. S., Allentown, Pa. (37a)
- Bellamy, J. H., Shreveport, La. (17b)
- Bellardino, John, Inc., Seneca Falls, N. Y. (31d)
- Bellevue Constr. Co., Bellevue, Wash. (46a)
- Belli, E., Reno, Nev. (27a)
- Bellows, W. S., Constr. Corp., Houston, Texas (35a) (42d)
- Belmar Co., Troy, N. Y. (31d)
- Ben Constr. Co., Pittsburgh, Pa. (37c)
- Benbow, Frank, Wichita, Kans. (15b)
- Benderoff, V. C., Des Moines, Iowa (14a)
- Bengal, A. M., Spokane, Wash. (46e)
- Ben Hur Constr. Co., St. Louis, Mo. (24c)
- Benike, Alvin E., Rochester, Minn. (22a)
- Bennett Constr. Co., Topeka, Kans. (15a) (15b)
- Bennett, Geo., Constr. Co., Kansas City, Kans. (15b) (24b)
- Bennett, Henry C., Co., Dallas, Texas (42a)
- Bennett, Jos. E., Co., Inc., Boston, Mass. (20b)
- Bennett-Stewart Co., Inc., Boston, Mass. (20b)
- Bennett, W. H., Constr. Co., Kansas City, Kans. (15b)
- Benold, A. Wilson, Bend, Oreg. (36a)
- Benson, Roy, & Son, Stephen, Minn. (22a)
- Bent Constr. Co., Los Angeles, Calif. (4d)
- Bentley, A., & Sons Co., The, Toledo, Ohio (34e)
- Bentley Constr. Co., Milwaukee, Wis. (48a)
- Bentley, Rex H., Ada, Okla. (35b)
- Bentley, Thos. H., & Son, Inc., Milwaukee, Wis. (48a)
- Bentson Contr. Co., Phoenix, Ariz. (2a)
- Benzing, A., & Sons, Hamilton, Ohio (L)
- Berenz & Son, Bloomington, Ill. (12c)
- Bergesen, Sam, Tacoma, Wash. (46d)
- Berggren, Harry F., & Sons, Scottsbluff, Nebr. (26b)
- Berghuis Constr. Co., Clara City, Minn. (22a)
- Bergquist, Gus, Auburn, Calif. (4b)
- Bergstrom, H. R., & Robt. B. Yates, Marshall, Texas (42n)
- Berkebile Bros., Johnstown, Pa. (37a)
- Berlinger Corp., Inc., Chico, Calif. (4a)
- Birmingham, J. W., Constr. Co., Inc., Corpus Christi, Texas (42i)
- Bernard & Byrd, Mobile, Ala. & New Orleans, La. (1a) (17a)
- Berna Constr. Co., Indianapolis, Ind. (13a)
- Bero Engr. & Constr. Corp., Buffalo, N. Y. (31d)
- Berretta Constr. Co., Exeter, Pa. (37a)
- Berry, C. B., Denver, Colo. (5b)
- Bertelsen Constr. Co., Houston, Texas (42d)
- Bester-Long, Inc., Hagerstown, Md. (19b)
- Betpouey, Clement, Jr. & Co., New Orleans, La. (17a)
- Bey, Roy K., Cedar Rapids, Iowa (14b)
- Beyer & Abrahamson, Los Angeles, Calif. (4d)
- Bianchi, Carlo, and Company, Inc., Framingham, Mass. (L) (31d)
- Biasotti, Louis, & Son, Stockton, Calif. (4b) (4d)
- Biba, W. A., Engr. Co., Geneva, Nebr. (26b)
- Bickel, Henry, Co., Inc., Louisville, Ky. (16b)
- Bickerton, W. E., Constr. Co., Inc., Baltimore, Md. (19a)
- Bickhard Constr. Co., Denver, Colo. (5a)
- Biesinger, Geo. L., & Son, Salt Lake City, Utah (43a)
- Big Horn Constr. Co., Sheridan, Wyo. (49a)
- Bigger & Bigler, Corpus Christi, Texas (42i)
- Biles, J. B., Constr. Co., McAlester, Okla. (35b)
- Bilhorn, Bower & Peters, Inc., Clayton, Mo. (24b)
- Binghamton Constr. Co., Inc., Binghamton, N. Y. (31d)
- Birbeck, L. J., Oswego, Oreg. (46a)
- Birch, S., & Sons Constr. Co., Great Falls, Mont. & Seattle, Wash. (25a) (46a) (49a) (50a)
- Birchby & Nauman, Inc., Denver, Colo. (5b)
- Bird Development Co., Stockton, Calif. (4b)
- Bird, E. V., Constr. Co., Fayetteville, Ark. (3a)
- Birdsall, John H., Jr., Palm Beach, Fla. (9e)
- Birger, Milton H., Co., Los Angeles, Calif. (4d)
- Birkemeier & Saremal, Portland, Oreg. (36a)
- Bishop, E. B., Orland, Calif. (4b)
- Bishop & Lock Constr. Co., Dallas, Texas (42m)
- Bisson, W. M., & Son, Laconia, N. H. (28a)
- Bituminous Products & Application Co., San Francisco, Calif. (4b)
- Black, J. J., & Co., Atlanta, Ga. (10a)
- Blackburn, W. H., Constr. Co., Oklahoma City, Okla. (35b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Blacktop Surfacing Co., Emporia, Kans. (15b)
- Blackwell Engr. Co., Warrenton, Va. (45a)
- Blades, A. L., & Sons, Hornell, N. Y. (31d)
- Blair, A. Farnell, Co., Inc., Atlanta, Ga. (10a)
- Blair, Ben, Burlingame, Calif. (4b)
- Blair Bros. Constr. Co., Quinter, Kans. (15b)
- Blakeslee, C. W., & Sons, Inc., New Haven, Conn. (6a)
- Blakeslee, E. H., Constr. Co., Great Falls, Mont. (25a)
- Blakeslee Rollins Corp., Boston, Mass. (20a)
- Blakeslee-Spierung Co., Ukiah, Calif. (4b)
- Blanchard Bros., Denver, Colo. (5b) (49a)
- Blanchard, Carver, Baton Rouge, La. (17d)
- Blanchard, Wm. L., Co., Newark, N. J. (1)
- Bland, Joe, Constr. Co., Austin, Texas (42j) (42k)
- Blankenship Bros., Charlotte, N. C. (32a)
- Blanks, H. B., Constr. Co., Vidalia, La. (23a)
- Blaser, Frank E., Bldg. Co., Wichita, Kans. (15a)
- Blauer Constr. Co., Chicago, Ill. (12a)
- Blaw-Knox Constr. Co., Pittsburgh, Pa. (4d)
- Bloedel, H. A., Pittsburgh, Pa. (37b)
- Blomquist Oil Service, Inc., Redwood City, Calif. (4b)
- Blue River Sand & Gravel Co., Irving, Kans. (15b)
- Blue, W. A., Co., Clayton, Mo. (24c)
- Blue Water Excavating Co., Port Huron, Mich. (21c)
- Blum, Frank L., & Co., Winston-Salem, N. C. (32a)
- Blunk, J. C., Constr. Co., Ottumwa, Iowa (14a)
- Blythe Bros. Co., Charlotte, N. C. (32a)
- Blythe & Isenhour, Charlotte, N. C. (32a)
- Boatright-Smith, Rawlins, Wyo. (49a)
- Bobier Constr. Co., Twin Falls, Idaho (11a)
- Bobo, Fabian, San Rafael, Calif. (4b)
- Bock Co., Los Angeles, Calif. (4d)
- Bock Constr. Co., Inc., Dallas, Texas (42a)
- Boen, Olav, Constr. Co., Seattle, Wash. (46b)
- Boespflug, J. C., Constr. Co., Billings, Mont. & Seattle, Wash. (25a) (25b) (46a) (46b) (50a)
- Boh Bros. Constr. Co., New Orleans, La. (17a)
- Bolander, Carl, & Sons Co., Minneapolis, Minn. (22a)
- Bolduc, L. H., & Co., Minneapolis, Minn. (22a)
- Bollinger, J. J., Constr. Co., Oklahoma City, Okla. (35a)
- Bolton-Pratt Co., The, Cleveland, Ohio (34c)
- Bond Bros., Inc., Everett, Mass. (20b)
- Bond, E. Lee, Contractor, Inc., Houston, Texas (42d)
- Bondgard Constr. Co., Racine, Wis. (48b)
- Bonesteel & Hyde, Pierre, S. Dak. (40a)
- Bong, Clifford C., & Co., Arcadia, Calif. (2a) (4d)
- Bonnell Constr. Co., Tacoma, Wash. (46d)
- Bontrager Constr. Co., Elkhart, Ind. (13a)
- Bonvicini Bldg. Co., Torrington, Conn. (6a)
- Bookout, W. T., Constr. Co., Las Vegas, N. Mex. (30a)
- Boone Constr. Co., Nashville, Tenn. (41d)
- Boone, S. J., Owensboro, Ky. (16a)
- Booth & Flinn Co., Pittsburgh, Pa. (37c)
- Booth & Olson, Inc., Sioux City, Iowa (14a)
- Boquet Constr. Co., Inc., Pittsburgh, Pa. (37c)
- Borchman, A., Sons, Omaha, Nebr. (26a)
- Borden, Val, Constr. Co., Salina, Kans. (15a)
- Bormolini, Louis, & Son, Novato, Calif. (4b)
- Bornstein, Ale, Inc., Louisville, Ky. (16b)
- Bortz & Bortz Coal Co., Stoneboro, Pa. (37c)
- Bosnyak, Bob, Los Angeles, Calif. (4d)
- Boso & Ritchie, Inc., Ravenswood, W. Va. (47a)
- Bossi Constr., Inc., Boston, Mass. (20b)
- Bost, P. M., Mobile, Ala. (1a)
- Bott, C. N., New Orleans, La. (17a)
- Boudwin, Walker, Constr. Co., Reno, Nev. (27a)
- Bouligny, R. H., Inc., Charlotte, N. C. (32a)
- Bouten, Gus J., Constr. Co., Spokane, Wash. (46c)
- Bowe Constr. Co., Inc., Augusta, Ga. (32a)
- Bowen & McLaughlin, Phoenix, Ariz. (2a)
- Bowen, R. A., Constr. Co., Macon, Ga. (10a)
- Bowerman Bros., Providence, R. I. (38a)
- Bowers Bldg. & Constr. Co., Salt Lake City, Utah (43a)
- Bowers & Chilton, Inc., Charleston, W. Va. (47a)
- Bowers Constr. Co., Raleigh, N. C. (32a)
- Bowers Constr. Co., Inc., Topeka, Kans. (15a)
- Bowman Constr. Co., Marion, Ind. (13b)
- Bowman, Dave, Constr. Co., Knoxville, Tenn. (41b)
- Boyajohn, Haig M., & Assos., Inc., Columbus, Ohio (34b)
- Boyce Co., Clearwater, Fla. (9c)
- Boyd & Goforth, Inc., Charlotte, N. C. (32a)
- Boyd, H. R., Co., Inc., Dearborn, Mich. (21c)
- Boyd, J. O., Constr. Co., Dallas, Texas (42a)
- Boyette, M. E., Constr. Co., Kensett, Iowa (14a)
- Boyle Constr. Co., Sumter, S. C. (32a)
- Boyle, M. J., & Co., Chicago, Ill. (12a)
- Bradbury, O. G., Albuquerque, N. Mex. (30b)
- Bradbury, P. A., Constr. Co., Aberdeen, S. Dak. (40a)
- Braden Constr. Co., Griswold, Iowa (14a)
- Bradfield, J. P., Columbus, Ga. (10a)
- Bradley & Dysart, Phoenix, Ariz. (2a)
- Bradshaw, L. S., & Sons, Salisbury, N. C. (32a)
- Brady Constr. Co., Seattle, Wash. (46a)
- Brady, E. P., & Co., Flint, Mich. (21c)
- Brady, Geo. J., Co., Inc., Hamden, Conn. (6a)
- Brady, John T., & Co., Inc., New York City (31c)
- Braen's, Samuel, Sons, Hawthorne, N. J. (29a)
- Bragato Paving Co., San Carlos, Calif. (4b)
- Bralei Homes, Inc., North Little Rock, Ark. (3a)
- Brandt Bros. & Co., Indianapolis, Ind. (13b)
- Branham & Branham, Eureka, Calif. (4b)
- Brann & Stuart Co., Philadelphia, Pa. (29a)
- Branton, M. O., Constr. Co., Little Rock, Ark. (3a)
- Braseltan Constr. Co., Corpus Christi, Texas (42i)
- Brasfield, Thos. C., Birmingham, Ala. (1a)
- Braun, C. F., & Co., Alhambra, Calif. (4d)
- Braun, Carl, & Son, Jackson, Mich. (21b)
- Bray, Edw. E., Co., Inc., Bridgeport, Conn. (6a)
- Bray, F. L., Constr. Co., Mobile, Ala. (1a)
- Bray, J. N., Co., Valdosta, Ga. (10a)
- Brazier Constr. Co., Seattle, Wash. (46b)
- Breiden & Smith, Anchorage, Alaska (50a)
- Breen, J. P., Sacramento, Calif. (4b)
- Bremer, C. C., & Co., Niagara Falls, N. Y. (31a)
- Bremer, J. C., Hillsboro, Ill. (12c)
- Brennan, J. P., Redding, Calif. (4b)
- Brennan, J. W., Pocatello, Idaho (11a)
- Brenneman, J. E., Co., Philadelphia, Pa. (37d)
- Breslin Constr. Co., Inc., Louisville, Ky. (16a)
- Bressi & Bevanda Constrs., Inc., North Hollywood, Calif. (4b) (4d)
- Brewer & Brewer Sons, Inc., Chillicothe, Ohio (34d)
- Brewer Co., Madeira, Ohio (34b)
- Brewer & McMichael, Inc., Holdenville, Okla. (35b)
- Brewer, N. E., Co., Winston-Salem, N. C. (32a)
- Brewster, Geo. M., & Son, Inc., Bogota, N. J. (29a)
- Brezner, Barnett, Alexandria, La. (17f)
- Brice Bldg. Co., Inc., Birmingham, Ala. & New Orleans, La. (1a) (17a)
- Bride & Didier, Sioux City, Iowa (14b)
- Bridges, C. G., Escanaba, Mich. (21c)
- Bridges, E. C., Heath Springs, S. C. (32a)
- Bridges Paving Co., St. Louis, Mo. (12c) (24c)
- Brien Bldg. Co., Inc., Woonsocket, R. I. (38a)
- Briggs, A. R., Constr. Co., Macon, Ga. (10a)
- Briggs Constr. Co., Tacoma, Wash. (46d)
- Briggs, R. W., & Co., San Antonio, Texas (42f)
- Brighton Sand & Gravel Co., Sacramento, Calif. (4b)
- Brighton & Wing, Detroit, Mich. (21c)
- Brinkley, W. F., & Son Constr. Co., Inc., Granite Quarry, N. C. (32a)
- Briscoe, Frank, Co., Inc., Newark, N. J. (L)
- Briscoe, J., Stillwater, Okla. (35b)
- Brissey Lumber Co., The, Anderson, S. C. (32a)
- Bristol, Mark, Oakland, Calif. (4a)
- Brittain-Pattillo Co., Decatur, Ga. (10a)
- Britton Constr. Co., Inc., Hamilton, Ohio (42m)
- Broad, John, Constr. Co., Austin, Texas (42k)
- Broce Constr. Co., Woodward, Okla. & Dodge City, Kans. (15b) (35b)
- Broce & Smith, Inc., Larned, Kans. (15b)
- Brock, M. J., & Sons, Inc., Los Angeles, Calif. & Reno, Nev. (4d) (27a)
- Brockmeyer Constr. Co., St. Louis, Mo. (24c)
- Brockob, R. L., Constr. Co., Chicago, Ill. (12a)
- Brodie Constr. Co., Amarillo, Texas (42m)
- Brogan Constr. Co., Des Moines, Iowa (14a)
- Brogdon Bros., Memphis, Tenn. (41c)
- Brommer, O. C., Belleville, Kans. (15b)
- Brookfield Constr. Co., Inc., New York, N. Y. (29a)
- Brooklawn Constr. Co., The, Hartford, Conn. (6a)
- Brooklyn Engr. Corp., Baltimore, Md. (19a)
- Brooks Constr. Co., Ft. Wayne, Ind. (13a)
- Brooks, Larry T., Tulsa, Okla. (35a)
- Brose Constr. Co., Cincinnati, Ohio (34b)
- Brosnahan, Earl F., Kansas City, Mo. (15b)

- Brosz, Paul, & Sons, Inc., Philadelphia, Pa. (37d)
- Brotemarkle, S. T., Constr. Co., Cumberland, Md. (19b) (37c)
- Brotherton, Fred J., Inc., Hackensack, N. J. (L)
- Broughton, O. J., Dallas, Texas (42j)
- Broussard, A. B., Baton Rouge, La. (17d)
- Browder, Earl T., Inc., St. Albans, W. Va. (47a)
- Brown, Alfred, Constr. Co., Salt Lake City, Utah (43a)
- Brown Bros., Chattanooga, Tenn. (41a)
- Brown Bros. Constr. Co., Manhattan, Kans. (15b)
- Brown, Chas. T., Co., San Fernando, Calif. (4d)
- Brown Constr. Co., Colorado Springs, & Pueblo, Colo. (5b) (49a)
- Brown Constr. Co., Houston, Texas (42d)
- Brown Constr. Co., The, Cleveland, Ohio (34c)
- Brown Contr. Co., Albuquerque, N. Mex. (30a)
- Brown, Dave L., Chattanooga, Tenn. (41a)
- Brown-Ely Co., El Cerrito, Contra Costa County, Calif. (4b)
- Brown, H. D., Stillwater, Okla. (35b)
- Brown-Hawkins Constr. Co., Kansas City, Mo. (24a)
- Brown, J. M., Constr. Co., Inc., Shreveport, La. (17b)
- Brown, M. Clint, Co., Longview, Texas (42n)
- Brown, M. W., Redding, Calif. (4b)
- Brown, Marvin, Inc., Houston, Texas (42f)
- Brown, O. L., Hamptonville, N. C. (32a)
- Brown Paving Co., Lexington, N. C. (32a)
- Brown & Root, Inc., Houston, & Austin, Texas (42f) (42j)
- Brown-Schrepferman & Co., Denver, Colo. (5a)
- Brown, Thomas C., Company, Inc., Schenectady, N. Y. (L)
- Brown, V. U., Constr. Co., Lyons, Kans. (15b)
- Brownnett, H. S., Jacksonville, Fla. (9a)
- Browning, C. L., Jr., San Antonio, Texas (42c)
- Brunelli, Frank C., Co., San Francisco, Calif. (4a)
- Brunetta, Dan, Gallup, N. Mex. (30b)
- Brunn Constr. Co., Kansas City, Mo. (24b)
- Brunson, E. A., Constr. Co., St. Louis, Mo. (24c)
- Bryan, Frank, Inc., McKees Rocks, Pa. (37c)
- Bryan, J. N., & Son, Raleigh, N. C. (32a)
- Bryan, Thos., & Assos., Inc., Houston, Texas (42d)
- Bryant Co., Franklin, Ind. (13a)
- Bryant & Detwiler Co., Detroit, Mich. (21a) (21c)
- Bryant, J. A., Vallejo, Calif. (4a)
- Bryant, J. Arlie, Spokane, Wash. (46c)
- Buchanan, P. A., Contr. Co., Birmingham, Ala. (1a)
- Buchanan, T. N., Constr. Co., Seattle, Wash. (46b)
- Buchholz, Walter T., Inc., Milwaukee, Wis. (48a)
- Buckler, Geo. H., Co., Portland, Oreg. (36a)
- Buck-MacDonald Co., Boston, Mass. (20a)
- Buckner, John F., & Son, Cleburne, Texas (42f)
- Buckner, R. C., Jacksonville, Texas (42f)
- Bucy, A. L., Brownwood, Texas (42f)
- Buesching Bros. Constr. Co., Fort Wayne, Ind. (13b)
- Bufkin & Rockhold, Alexandria, La. (17f)
- Bugbee, Newton A. K., & Co., Trenton, N. J. (29a)
- Buice, A. A., Elsa, Texas (42o)
- Builders Co., The, Chicago, Ill. (12a)
- Builders Constr. Co., Oklahoma City, Okla. (35a)
- Builders, Inc., Columbia, S. C. (32a)
- Building Constrs., Inc., Memphis, Tenn. (41c)
- Bulley & Andrews, Chicago, Ill. (12a)
- Bumgarner's Constr. Co., Conover, N. C. (32a)
- Bumiller & Meyersieck, St. Louis, Mo. (24c)
- Bunce, H. E., Waverly, N. Y. (31d)
- Bunger, Harry, & Son, Cromwell, Ind. (13b)
- Buquet & LeBlanc, Baton Rouge, La. (17d)
- Burch Constr. Co., Madison, Wis. (12c) (14a)
- Burch, R. B., Inc., Cedar Rapids, Iowa (14a)
- Burgess, A. E., Contr. Co., Birmingham, Ala. (1a)
- Burggraf, Nic, Idaho Falls, Idaho (11a)
- Burghart, O. F., Inc., Bridgeport, Conn. (6a)
- Burke, J. P., Gadsden, Ala. (1a)
- Burke, Jas. J., & Co., Salt Lake City, Utah (43a)
- Burke, O. W., Co., Detroit, Mich. (21a)
- Burke & Reynolds Constr. Co., Wilmington, Calif. (4d)
- Burks & Co., Denver, Colo. (5b)
- Burman, John, & Sons, Eureka, Calif. (4b)
- Burn, P. R., Las Cruces, N. Mex. (30a)
- Burner, J. R., Oblong, Ill. (12c)
- Burnett Constr. Co., Coalinga, Calif. (4b)
- Burnett Constr. Co., Durango, Colo. (5b)
- Burnett Constr. Co., Corpus Christi, Texas (42i)
- Burns, A. W., Constr. Co., The, Columbus, Ohio (34d)
- Burns-Brandes Constr. Co., Tulsa, Okla. (35a)
- Burns, J. P., Dumont, N. J. (29a)
- Burns, Tom, & Co., Inc., Portland, Oreg. (36b)
- Burrell Constr. & Supply Co., New Kensington, Pa. (37c)
- Burrell, Thos. L., Inc., Indianapolis, Ind. (13b)
- Burrows & Milone, Tacoma, Wash. (46d)
- Burt & Binford, Hutchinson, Kans. (15b)
- Burton, A. B., Co., Inc., Lynchburg, Va. (32a)
- Burton, Chas. A., Inc., Cleveland, Ohio (34c)
- Bushbom & Raub, Salina, Kans.; Dallas, Texas, & Spokane, Wash. (15a) (46c) (42a)
- Bush, E. B., Constr. Co., Oklahoma City, Okla. (35a)
- Bushman Constr. Co., St. Joseph, Mo. (24b) (26b)
- Busse, Henry, Pittsburgh, Pa. (37b)
- Butcher, Earl L., Fairbanks, Alaska (50a)
- Butcher & Sweeney, Inc., Fort Worth, Texas (42c)
- Butler & Cobbs, Montgomery, Ala. (1a)
- Butler, Gerald C., Shreveport, La. (17b)
- Butler, H. L., & Son, Dallas, Texas (42f)
- Butler, J. Samuel, New Orleans, La. (17a)
- Butler, M. P., Seattle, Wash. (46a)
- Butler & Oenbrink, Palm Beach, Fla. (9c)
- Butler, R. B., Inc., Bryan, Texas (42f)
- Butte Constr. Co., San Francisco, Calif. (4b)
- Butte Creek Rock Co., Chico, Calif. (4b)
- Butterfield, C. R., Co., San Pedro, Calif. (4d)
- Butterfield, L. B., San Diego, Calif. (4c)
- Buttress & McClellan, Inc., Los Angeles, Calif. (4d) (2a)
- Buzzi, Felix, & Son, Torrington, Conn. (6a)
- Byers, J. B., Kilgore, Texas (42n)
- Byers, R. W., Redding, Calif. (4b) (36a)
- Byrd & Bruns Bridge Co., New Orleans, La. (17a)
- Byrne Organization, Inc., Washington, D. C., Honolulu, T. H., & Dallas, Texas (N)
- Byrne, Thos. S., Inc., Fort Worth, Texas (42c)
- Byrnes-Conway Co., Cincinnati, Ohio (34b)
- Byrum Constr. Co., The, Wheeling, W. Va. (47a)
- C**
- C-B Constr. Co., Baton Rouge, La. (17d)
- C. & E. Constr. Co., Inc., Yakima, Wash. (46c) (46a)
- C & H Constr. Co., Salina, Kans. (15b)
- C-L Electric Co., Pocatello, Idaho (11a)
- C & T Constr. Co., Collingswood, N. J. (29a)
- C & W Constr. Co., Houston, Texas (42d)
- Cable Guide Rail Constr. Co., Depew, N. Y. (31d)
- Caddell & Jackson, Jacksonville, Fla. (9a)
- Cadenhead, Thos. H., & Sons, Fort Worth, Texas (42c)
- Cadillac Asphalt Paving Co., Detroit, Mich. (21c)
- Cady, Wm. J., & Co., Amsterdam, N. Y. (31d)
- Cafardi, A. R., Pittsburgh, Pa. (37c)
- Cage Bros., San Antonio, Texas (42f)
- Cagle, Harry E., Houston, Texas (42f)
- Cahill Bros., Inc., San Francisco, Calif. (4a)
- Cahill-Mooney Constr. Co., Butte, & Billings, Mont. (25a) (25b)
- Cahoon, W. R., Pocatello, Idaho (11a)
- Cain & Cain, Fort Worth, Texas (42c)
- Caldwell & McCann, Baton Rouge, La. (17d)
- Caldwell-Scott Engr. & Constr. Co., Inc., Ft. Lauderdale, Fla. (9b)
- California Steel Prods. Co., Ind. Constr. & Maint. Div., Richmond, Calif. (4b)
- Callahan Constr. Co., San Marino, Calif. (4d)
- Calowell Constr. Co., Long Beach, Calif. (4d)
- Calumet Paving Co., Zionsville, Ind. (13a)
- Cameron, Joyce & Co., Keokuk, Iowa (12c) (14a) (24b)
- Camillo Bros. Dump Truck Co., Glendale, Calif. (4d)
- Campanella, Edw. P., Hammon, N. J. (29a)
- Campbell, Clinton, Contrs., Inc., Phoenix, Ariz. (2a)
- Campbell Constr. Co., Jackson, Miss. (23b)
- Campbell Constr. Co., Sacramento, Calif. (4a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Campbell Constr. Co., Inc., Shreveport, La. (17e)
 Campbell Constr. & Equip. Co., San Francisco, Calif. (4b)
 Campbell Constr. & Equip. Co., Portland, Oreg. (36a)
 Campbell, Harry, Fort Worth, Texas (42f)
 Campbell, Harry T., Sons' Corp., Towson, Md. (19b)
 Campbell & Kay, Tyler, Texas (42d) (42f)
 Campbell, Orville, Independence, Mo. (24a)
 Campbell & Rightmire, Los Angeles, Calif. (4d)
 Campion Co., Ogden, Utah (43a)
 Campion, F. K., Philadelphia, Pa. (37d)
 Campsey, R. N., Constr. Co., Denver, Colo. (5b)
 Canion, J. R., Constr. Co., Austin, Texas (42f)
 Cannon Constr. Co., Stockton, Calif. (4b)
 Cantera Constr. Co., Wilmington, Del. (7a)
 Cantrell, L. V., Berkeley, Calif. (4b)
 Cantrell & McMillan, Houston, Texas (42d) (42h)
 Canuso, Francis A., & Son, Philadelphia, Pa. (29a)
 Capital Co., San Francisco, Calif. (4b)
 Capital Constr. Co., Atlanta, Ga. (10a)
 Capps, Gordon L., Stockton, Calif. (4b)
 Carbon Bros., Spokane, Wash. (46c)
 Carbone, R. P., Constr. Co., Cleveland, Ohio (34c)
 Carden & Cox, Sacramento, Calif. (4b)
 Cardwell, Leo, Constr. Co., Santa Cruz, Calif. (4b)
 Carey, Clay P., & Co., Brownwood, Texas (42j)
 Carlen Constr. Co., San Francisco, Calif. (4a)
 Carlsen, A. F., Salinas, Calif. (4a)
 Carlson, Arved, Missoula, Mont. (25b)
 Carlson Constr. Co., Essex, Iowa (14a)
 Carlson Constr. Co., Omaha, Nebr. (14a)
 Carlson, Fred, Co., Inc., Decorah, Iowa (14a)
 Carlson, Geo., Co., Milwaukee, Wis. (48a)
 Carlson, Henry, Company, Sioux Falls, S. Dak. (1)
 Carlson & Torell Co., The, New Britain, Conn. (6a)
 Carmichael Constr. Co., The, Akron, Ohio (34a)
 Carney Constr. Co., Phoenix, Ariz. (2a)
 Carolina Contr. Co., Inc., Columbia, S. C. (32a)
 Carpenter Bros., Dallas, Texas (42a)
 Carpenter Constr. Co., Houston, Texas (42d)
 Carpenter Constr. Co., Norfolk, Va. (45a)
 Carpenter, O. L., San Diego, Calif. (4c)
 Carpenter, R. E., & Co., Shelby, N. C. (32a)
 Carrio & Gautier, San Francisco, Calif. (4a)
 Carroll, A. C., Modesto, Calif. (4a)
 Carroll Constr. Co., Atlanta, Ga. (10a)
 Carroll Constr. Co., Chicago, Ill. (12a)
 Carroll & Foster, San Diego, Calif. (4c)
 Carrothers, H. H., Paola, Kans. (15b)
 Carruth Contr. Co., Baton Rouge, La. (17e)
 Carson Constr. Co., Inc., Helena, Mont. (25b)
 Carstensen, Inc., Johnstown, Pa. (37a)
 Carter, A. G., Jr., Whiteville, N. C. (32a)
 Carter, C. E., Akron, Ohio (34a)
 Carter, Chas., Baton Rouge, La. (17d)
 Carter, Geo. W., Co., Los Angeles, Calif. (4d)
 Carter, W. B., Constr. Co., Wichita, Kans. (15b)
 Carty, Herman, Little Rock, Ark. (3a)
 Cascade Constr. Co., Portland, Oreg. (36a)
 Case-Connolly Co., Compton, Calif. (4d)
 Case, V. D., Co., Wilmington, Calif. (4d)
 Casey & Case Foundation Co., Maywood, Calif. (4d)
 Casey, John F., Co., Pittsburgh, Pa. (37c)
 Caskey, G. M., & Son, Athens, Ga. (10a)
 Casper-Lyons Co., Grand Rapids, Minn. (22a)
 Cassel Bros., Kingsport, Tenn. (41e)
 Casson Constr. Co., Topeka, Kans. (15a)
 Castle, E. B., & Son, Marion, Iowa (14b)
 Castle, M. F., Spokane, Wash. (46c)
 Cauker, Joe, Fort Worth, Texas (42c)
 Cauldwell-Wingate Company, New York, N. Y. (N)
 Cawdrey & Vemo, Seattle, Wash. (46b)
 Caye Constr. Co., Inc., Brooklyn, N. Y. (31c)
 Cayuga Foundation Corp., New York, N. Y. (29a)
 Ceccotti & Son, San Francisco, Calif. (4b)
 Cecil's, Inc., Spartanburg, S. C. (32a)
 Cederstrand, August, Co., Minneapolis, Minn. (22a)
 Cement Asphalt Prods. Co., Winfield, Kans. (15b)
 Central California Constr. Co., San Francisco, Calif. (4a)
 Central Constr. Co., Indianola, Iowa (14a)
 Central Constr. Co., Sioux Falls, S. Dak. (40a)
 Central Constr. Co., Spokane, Wash. (46e)
 Central Constr. Co., Inc., Monroe, La. (17e)
 Central Contr. Co., Oshkosh, Wis. (48b)
 Central Engr. Co., Davenport, Iowa (12c) (14a)
 Central Engr. & Constr. Co., Pawtucket, R. I. (38a)
 Central Sand & Gravel Co., Pasco, Wash. (46a)
 Central State Constr. Co., Inc., San Francisco, Calif. (4b)
 Chalker Constr. Co., Miami, Fla. (9b)
 Chamberlain & Strain, San Antonio, Texas (42e)
 Chambers Constr. Co., Houston, Texas (42d)
 Chambers Steel Co., San Diego, Calif. (4c)
 Chambers-Tarbell, Kansas City, Mo. (24a)
 Champaign Asphalt Co., Champaign, Ill. (12c)
 Chandler Bros., Inc., Virgilina, Va. (32a)
 Chandler Constr. Co., Cameron, Texas (42k)
 Chapel Constr. Co., The, New Haven, Conn. (6a)
 Chapman Constr. Co., Dothan, Ala. (1a)
 Chapman Constr. Co., Lawton, Okla. (35a)
 Chapman, J. F., & Son, Inc., Hillside, N. J. (29a)
 Chapman, Oscar T., Inc., Hutchins, Texas (42L)
 Chappell, W. M., Co., Anacostia, D. C. (8a)
 Chase Constr. Co., Rapid City, S. Dak. (40a)
 Chaudoir, A. B., & Sons, Alexandria, La. (17f)
 Chavis Constr. Co., Pensacola, Fla. (9d)
 Cheek, Geo. H., Constr. Co., Inc., Frankfort, Ky. (16a)
 Cheney, F. G., Williamston, Mich. (21c)
 Cherokee, Inc., Columbia, S. C. (32a)
 Chevreux, Joe, Auburn, Calif. (4b)
 Child, Ralph E., Springville, Utah (43a)
 Childs Constr. Co., Fort Worth, Texas (42c)
 Chilli, Geo. H., Homestead, Pa. (37b)
 Chisholm & Eiford, Bellingham, Wash. (46b)
 Chittenden & Chittenden, Auburn, Calif. (4b)
 Choate, Jack, Harlingen, Texas (42o)
 Choate, Milo J., & Co., Tyler, Texas (42n)
 Christensen Bros., Sioux City, Iowa (14a)
 Christensen Constr. Co., Salt Lake City, Utah (43a)
 Christensen Constr. Co., Sibley, Iowa (14b)
 Christensen & Lyons, Oakland, Calif. (4a)
 Christensen Sand & Gravel Co., Fremont, Nebr. (26b)
 Christian & Bell Co., Atlanta, Ga. (10a)
 Christian, J. E., Co., The, Cleveland, Ohio (34c)
 Christiansa, Vernon, Jr., Utica, N. Y. (31d)
 Christiansen Bros., Salt Lake City, Utah (43a)
 Christie, Richard H., Wasta, S. Dak. (40a)
 Christman Co., The, Lansing, Mich. (21b)
 Christman, H. G., Constr. Co., Inc., South Bend, Ind. (13b)
 Christy & Baskett, San Antonio, Texas (42e)
 Chytraus Bros. Co., Salt Lake City, Utah (43a)
 Cianci Constr. Co., West Hartford, Conn. (6a)
 Circle Constr. Corp., White Plains, N. Y. (31d)
 City Constr. Co., Utica, N. Y. (31d)
 City Electric Co., Boise, Idaho (11a)
 City Lumber Co., Inc., Alexandria, La. (17f)
 Cladny, M., Constr. Co., Inc., Washington, D. C. (8a)
 Clair-Mel Bldrs., Inc., Tampa, Fla. (9c)
 Clancy Constr. Co., Raleigh, N. C. (32a)
 Clardy, J. B., Constr. Co., Fort Worth, Texas (42f)
 Clark Bros. Co., Peoria, Ill. (12c)
 Clark Bros. Constr. Co., Hinton, Iowa (14a)
 Clark Bros. Constr. Co., Leavenworth, Kans. (15b)
 Clark Constr. Co., Greenville, N. C. (32a)
 Clark Constr. Co., Inc., Grand Ledge, Mich. (21b)
 Clark, Don, Topeka, Kans. (15a)
 Clark & Fay, Inc., Memphis, Tenn. (41c)
 Clark, L. C., Visalia, Calif. (4b)
 Clark, Richard F., Co., Cambridge, Mass. (20b)
 Clark, Roy C., East Chicago, Ind. (13b)
 Clark & Runquist Constr. Co., Savannah, Mo. (24b)
 Clark, W. G., Co., Seattle, Wash. (46b)
 Clarkson Constr. Co., The, Kansas City, Mo. (15b) (24b)
 Clarson, R. E., Inc., St. Petersburg, Fla. (9c)
 Clausen, John, & Sons, Grand Island, Nebr. (26a)
 Claussen-Olson-Benner, Inc., Holdrege, Nebr. (26b)
 Clayton, A. L., Co., Jacksonville, Fla. (9a)
 Clearkin, Jas. J., Philadelphia, Pa. (37d)
 Cleary Bros. Constr. Co., West Palm Beach, Fla. (9e)
 Cleaver, David, Co., Akron, Ohio (34a)
 Cleckley, J. F., & Co., Orangeburg, S. C. (32a)
 Cleckley & McGee, Inc., Orangeburg, S. C. (32a)
 Clements & Co., Hayward, Calif. (4b)
 Clemmer Constr. Co., Inc., Akron, Ohio (34a)

- Cleveland Constr. Co., The, Cleveland, Ohio (34c)
 Clevenger, Howard Co., Port Angeles, Wash. (46a)
 Cleverdon Co., Inc., Lafayette, Calif. (4b)
 Click Constr. Co., Elizabethton, Tenn. (41e)
 Clifford, R. G., South San Francisco, Calif. (4b)
 Clifton & Applegate Co., Spokane, Wash. (25a) (46c)
 Cline, F. D., Constr. Co., Raleigh, N. C. (32a)
 Clinton Bridge Corp., Clinton, Iowa (14a)
 Clinton Constr. Co., San Francisco, Calif. (4a)
 Clinton & Corbin, Waco, Texas (42f)
 Clinton Engr. Co., Clinton, Iowa (14a) (14b)
 Cloer, E. E., Fort Worth, Texas (42d)
 Close Bldg. Supply, Hayward, Calif. (4b)
 Cloud, Dudley R., & Son, San Antonio, Texas (42f)
 Clough & King Constr. Co., Albuquerque, N. Mex. (30b)
 Clough, L. M., Co., Oakland, Calif. (4b)
 Clyde, W. W., & Co., Springville, Utah (43a)
 Coastal Constr., Inc., Wilmington, N. C. (32a)
 Coastal Properties Corp., West Palm Beach, Fla. (9e)
 Coates Constr. Co., Florence, S. C. (32a)
 Coath & Goss, Inc., Chicago, Ill. (12a)
 Cobb, J. E., Jr. Constr. Co., Memphis, Tenn. (41c)
 Coble, H. L., Constr. Co., Inc., Greensboro, N. C. (32a)
 Cochran, C. B., Indianapolis, Ind. (13a)
 Cockrell, Mark, Contr. Co., Phoenix, Ariz. (2a)
 Codell Constr. Co., Inc., Winchester, Ky. (16a) (47a)
 Coe, J. L., Constr. Co., Charlotte, N. C. (32a)
 Coffeen, A. R., Co., Decorah, Iowa (14a) (14b)
 Coffey, Jas., Topeka, Kans. (15b)
 Coffey, John W., & Son, Raleigh, N. C. (32a)
 Coggins Constr. Co., Inc., Raleigh, N. C. (32a)
 Cogswell Constr. Co., The, Baltimore, Md. (19a)
 Cohen, Chas., Marshall, Texas (42f)
 Cohen, S. J., Blytheville, Ark. (23a)
 Cohenour Constr. Co., Ardmore, Okla. (35b)
 Cohron, A. M., & Son, Des Moines, Iowa (14a) (14b)
 Cohron, H. V., Mobile, Ala. (1a)
 Cold Spring Constr. Co., Akron, N. Y. (31d)
 Cole, Ben, & Son, Ames, Iowa (14a) (14b)
 Cole & Crumacker, West Durham, N. C. (32a)
 Coleman Constr. Co., Inc., Providence, R. I. (38a)
 Coleman, L. S., Co., Inc., St. Albans, W. Va. (47a)
 Colglazier & Hoff, Inc., San Antonio, Texas (42f)
 Collins, A. J., Floral City, Fla. (10a)
 Collins Bros., Mechanicville, N. Y. (31d)
 Collins-Bruley Constr. Co., Decatur, Ill. (12c)
 Collins Constr. Co., Austin, Texas (42f)
 Collins Constr. Co., Leavenworth, Kans. (15b)
 Collins Constr. Co., Kansas City, Mo. (24a)
 Collins, H. V., Providence, R. I. (38a)
 Collins & Hobbs, Chattanooga, Tenn. (41a)
 Collins, Howard, Shreveport, La. (17b)
 Collins, J. H., & Co., Walla Walla, Wash. (46c)
 Collins, O. W., Port Arthur, Texas (42h)
 Collins, Wm. L., Hornell, N. Y. (31d)
 Collins, Wm., & Sons, Inc., Fargo, N. Dak. (22a)
 Colonial Constr. Co., Spokane, Wash. (46c)
 Colorado Constr., Inc., Denver, Colo. (5b)
 Coltrane-Graham Constr. Co., High Point, N. C. (32a)
 Coluccio, Thos. F., & Sons, Rome, N. Y. (31d)
 Columbia Asphalt Paving Co., Yakima, Wash. (46a)
 Colvin, Leslie, Indianapolis, Ind. (13b)
 Comb, Fred R., Co., Minneapolis, Minn. (22a)
 Combs Constr. Co., Chattanooga, Tenn. (41a)
 Complete General Constr. Co., Columbus, Ohio (34d)
 Compton, J. C., Co., McMinnville, Oreg. (36a)
 Comstock, Glenn A., Bay City, Mich. (21c)
 Comte Constr. Co., Toledo, Ohio (34e)
 Concrete Bldrs., Inc., Atlanta, Ga. (10a)
 Concrete Conduit Co., Colton, Calif. (4d)
 Concrete Constr. Co., Atlanta, Ga. (10a)
 Concrete Materials & Constr. Co., Cedar Rapids, Iowa (14a) (15b) (24b) (26b)
 Condict Co., Berkeley, Calif. (4a)
 Condon-Cunningham Company, Omaha, Neb. (N) (5b) (14a) (24b) (26b)
 Condra, R. M., Nashville, Tenn. (41d)
 Conduit Constr. Co., Oakland, Calif. (4b)
 Conduit Contr. Co., Inc., St. Louis, Mo. (12d) (24b) (24c)
 Cone Bros. Constr. Co., Tampa, Fla. (9c)
 Congaree Constr. Co., Columbia, S. C. (32a)
 Conley Constr. Co., Mobile, Ala. (1a)
 Conley, J. N. & M. J., Portland, Oreg. (36a)
 Conlon Constr. Co., Dubuque, Iowa (14b)
 Conner, Frank H., Co., Charlotte, N. C. (32a)
 Conner, Harvey E., Redwood City, Calif. (4b)
 Conner, J. L., Jr., Eureka, Calif. (4b)
 Consolidated Contrs., Inc., Memphis, Tenn. (41c)
 Consolidated Engr. Co., Wheeling, W. Va. (47a)
 Consolidated Engr. Co., Inc., Baltimore, Md. (8a) (19a)
 Consolidated Steel Corp., Constr. Div., Houston, Texas (42d)
 Constant Constr. Co., Inc., Lawrence, Kans. (15a) (15b)
 Construction Aggregates Corp., New York, N. Y. (29a)
 Construction Engrs. & Contrs., Tacoma, Wash. (46d)
 Construction & Maintenance Co. of Texas, Houston, Texas (42d)
 Construction Service Co., Bound Brook, N. J. (29a)
 Construction Service, Inc., Charleston, W. Va. (47a)
 Construction Units, Inc., Boston, Mass. (20b)
 Conti & Donahue, Lynn, Mass. (20b)
 Continental Constr. Co., Chicago, Ill. (12a)
 Contracting Engrs. Co., The, Los Angeles, Calif. (4d)
 Contractors Rental Service, Inc., Seattle, Wash. (46a)
 Conyes Constr. Corp., San Pablo, Calif. (42m)
 Coogan, Thos. P., Co., Miami, Fla. (3a)
 Cook & Cone, Wichita, Kans. (15b)
 Cook Constr. Co., Jackson, Miss. (23a)
 Cook, Geo. F., Constr. Co., Minneapolis, Minn. (22a)
 Cook, S. J., & Son, Los Angeles, Calif. (4d)
 Cooke Contr. Co., The, Detroit, Mich. (21c)
 Cooley, John, Co., Detroit, Mich. (21a)
 Coomer, R. M., Constr. Co., Sioux City, Iowa (14b)
 Coon, B. G., Constr. Co., Luzerne, Pa. (37a)
 Cooney, Don L., Inc., Seattle, & Tacoma, Wash. (36a) (46a) (46d)
 Coons, E. W., Co., Inc., Hibbing, Minn. (22a)
 Cooper Constr. Co., Omaha, Neb. (26a)
 Cooper, S. E., Wilmington, N. C. (32a)
 Cooper, W. M., Santa Fe, N. Mex. (30b)
 Cooper & Woodruff, Dallas, Texas (42f)
 Coos Bay Dredg. Co., Inc., Coos Bay, Oreg. (36a)
 Copeland Constr. Co., Houston, Texas (42d)
 Corbett, Frank D., Sacramento, Calif. (4b)
 Corbisello, N. R., Binghamton, N. Y. (31d)
 Corey, J. S., Constr. Co., Oklahoma City, Okla. (35a)
 Corn & McGraw Constr. Co., Grand Junction, Colo. (5b)
 Cornell, J. S., & Son, Inc., Philadelphia, Pa. (37d)
 Cornell-Young Co., Macon, Ga. (10a)
 Corning, Edw., Co., New York City (31c)
 Cornish Constr. Co., Greensburg, Pa. (37c)
 Corol Constr. Corp., Pittsburgh, Pa. (37c)
 Corr, Francis J., Inc., Lansing, Mich. (21b)
 Corr, John L., Jr., New Orleans, La. (17a)
 Corson & Gruman Company, Washington, D. C. (1)
 Corum & Edwards, Madisonville, Ky. (16a)
 Cory & Longworth, Inc., San Diego, Calif. (4c)
 Costanza Constr. Co., The, Baltimore, Md. (19a)
 Costigan, J. C., Elkader, Iowa (14a)
 Coston, W. L., & Sons, Birmingham, Ala. (1a)
 Cottage Bldrs., Inc., Shreveport, La. (17b)
 Cottle, L. W., Clovis, N. Mex. (30b)
 Couch Constr. Co., Dothan, Ala. (1a)
 Coulter & Co., Columbia, S. C. (32a)
 Council Bluffs Constr. Co., Council Bluffs, Iowa (14a)
 County Asphalt, Inc., Tarrytown, N. Y. (31d)
 Coupe, A. L., Constr. Co., Louisville, Ky. (16b)
 Couper, Wm. M., Co., Ann Arbor, Mich. (21c)
 Couse, Walter L., & Co., Detroit, Mich. (21a) (21c)
 Cousins, Geo. L., Contr. Co., St. Louis, Mo. (24c)
 Covina Constr. Co., Covina, Calif. (4d)
 Cowan, C. J., Constr. Co., Topeka, Kans. (35a)
 Cowan, H. J., Algona, Iowa (14b)
 Cowdin Bros., Dallas, Texas (42a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

Cowen Constr. Co., Shawnee, Okla. (35a)
 Cowper, John W., Co., Inc., The, Buffalo, N. Y. (N) (31a)
 Cox, Fred M., Jacksonville, Fla. (9a)
 Cox, L. P., Co., Sanford, N. C. (32a)
 Cox, P. T., Constr. Co., Inc., New York, N. Y. (29a)
 Crabtree-Maule Corp., Richmond, Ind. (13b)
 Craft Constr. Co., Pittsburgh, Pa. (37c)
 Craftsmen Constr. Co., Inc., The, Sante Fe, N. Mex. (30b)
 Craig, Jay W., Co., Minneapolis, Minn. (22a) (40a)
 Craig, John W., Charlotte, N. C. (32a)
 Craig-Roberson Constr. Co., Columbia, S. C. (32a)
 Crain & Denbo, Inc., Durham, N. C. (32a)
 Cramer, E. F., Indianapolis, Ind. (13b)
 Cramer-Vollmerhausen Co., Inc., Washington, D. C. (8a)
 Crandall Engr. Co., Boston, Mass. (20a)
 Cranford, Frederick L., Inc., Brooklyn, N. Y. (N)
 Crawford Corp., Constr. Div., Baton Rouge, La. (17d)
 Crawford, J. W., Co., Minneapolis, Minn. (22a)
 Crawford, W. S., Co., Dallas, Texas (42f)
 Crawford, Wm., Inc., New York City (31c)
 Crawley, David, Cincinnati, Ohio (34b)
 Greager Bros. Constr. Co., Fort Pierre, S. Dak. (40a)
 Creed, Geo. A., & Son, Columbia, S. C. (32a)
 Creson, R. F., & Co., Memphis, Tenn. (41c)
 Crick, Jas., & Sons, Spokane, Wash. (46c)
 Crocco & Hanson, Vallejo, Calif. (4b)
 Crocker & Ellett, Inc., Denver, Colo. (5b)
 Crockett, Leslie F., Constr. Co., Austin, Texas (42k)
 Croissant, F. J., Antwerp, N. Y. (31d)
 Cromer & Sullivan Constr. Co., Anderson, S. C. (32a)
 Cropp, E. H., Constr. Co., Mobile, Ala. (1a)
 Crosby Constr. Co., Inc., Union, S. C. (32a)
 Crossland Constr. Co., Columbia, S. C. (32a)
 Cross, E. J., Company, Worcester, Mass. (L)
 Crossman-McCoy, Inc., Sodus, Mich. (21c)
 Crouch, M. G., Lumber Co., Hickory, N. C. (32a)
 Crouch, Robt. C., & Co., Memphis, Tenn. (41c)
 Crow, L. A. & R. S., El Monte, Calif. (4d)
 Crow, Wm. L., Constr. Co., New York City (31c)
 Crowder Constr. Co., Charlotte, N. C. (32a)
 Crowell, Wm. C., Co., Pasadena, Calif. (4d)
 Crumley, Jones & Crumley Co., The, Deer Park, Ohio (34b)
 Crump, Edw. Jr., Inc., Pittsburgh, Pa. (37b)
 Crumpecker, Wm., & Sons, Morehouse, Mo. (23a)
 Cruse, R. G., Lumber Co., Inc., Sicily Island, La. (17g)
 Cuddihy, Jos., Phoenix, Ariz. (2a)
 Cullen & Cullen, Merced, Calif. (4a)
 Cullen, J. P., & Son, Janesville, Wis. (48b)
 Cullen, Russell A., Inc., San Francisco, Calif. (4a)
 Cullum & Hodgson, Lubbock, Texas (42j)
 Cullum, W. G., & Co., Dallas, Texas (42j)
 Culwell, Haskell, Constr. Co., Oklahoma City, Okla. (35a)

Cumberland Contr. Co., The, Cumberland, Md. (19b)
 Cummings, H. P., Constr. Co., Ware, Mass. (L)
 Cummings, Matthew, Co., Boston, Mass. (20b)
 Cummins, H. E., & Sons, Enid, Okla. (35a)
 Cummins, J. F., Burbank, Calif. (4d)
 Cump, Earl L., Chambersburg, Pa. (37a)
 Cunliff, Wm. H. & Nelson, Co., St. Louis, Mo. (24c)
 Cunningham, A. J., & Sons, Trenton, N. J. (20a)
 Cunningham Bros., Inc., Beloit, Wis. (48b)
 Cunningham, Chas. I., Co., Oakdale, Calif. (4b)
 Cunningham-Reis Co., Des Moines, Iowa (14a)
 Cuppels, F. J., Kingston, Pa. (37a)
 Curlett Constr. Co., Long Beach, Calif. (4d)
 Curphy, Bill, Co., Des Moines, Iowa (14a)
 Curran, Kenneth E., Inc., Littleton, N. H. (28a)
 Currie, Thos. E., Co., The, Detroit, Mich. (21a) (21c)
 Curry Constr. Co., Bloomington, Ind. (13a)
 Curry, I. C., San Diego, Calif. (4c)
 Curtis Gravel Co., Spokane, Wash. (46c)
 Curtis-Pethick Co., The, Wilkes-Barre, Pa. (37a)
 Cutshall, J. M., & Sons, Brazil, Ind. (13b)

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D & H Constr. Co., Dallas, Texas (42f)
 D-H Paving Co., Vancouver, Wash. (36a)
 Dahl-Stedman Co., Chicago, Ill. (12a)
 Dahlberg, S. A., Seattle, Wash. (46a)
 Dahlgren & Brooks, Oklahoma City, Okla. (35b)
 Dahman Constr. Co., Milwaukee, Wis. (48a)
 Dahms, O. R., Constr. Co., Sacramento, Calif. (4b)
 Dail Constr. Co., Phoenix, Ariz. (2a)
 Dailey, H. A., Inc., St. Louis, Mo. (24c)
 Dailey & Holifield, San Antonio, Texas (42f)
 Dailey, L. W., Constr. Co., Fort Wayne, Ind. (13a)
 Dale Engr. Co., Utica, N. Y. (31d)
 Dale, W. E., Constr. Co., Morganton, N. C. (32a)
 D'Alessio Constr. Co., Akron, Ohio (34a)
 Daley Constr.-Aeme Materials Co., Phoenix, Ariz. (2a)
 Daley Corp., San Diego, Calif. (4c)
 Daley, Morris, Burlingame, Calif. (4a)
 Dalton Constr. Co., Joplin, Mo. (15a)
 Dalton, E. L., & Co., Ltd., Dallas, Texas (42f)
 Dan Bar Contr. Co., Inc., Syracuse, N. Y. (31d)
 Dangel's, David, Sons, Wilmington, Del. (7a)
 Daniel Constr. Co., Inc., Birmingham, Ala. & Greenville, S. C. (1a) (32a)
 Daniel Lumber Co., La Grange, Ga. (10a)
 Daniels, E. L., Arlington, Va. (8a)
 Daniels, O. B., Seattle, Wash. (46b)
 Danis, B. G., Co., Dayton, Ohio (34b)
 Dapont, A., Constr. Co., Inc., Waterbury, Conn. (6a)
 Darby, E. B., Co., Pharr, Texas (42f)
 Darby, Mitchell, Constr. Co., McAllen, Texas (42j)
 Darin & Armstrong, Inc., Detroit, Mich. (21a) (21c)
 Darling, Herbert F., Williamsville, N. Y. (31a)
 Darlington Constr. Co., Inc., Darlington, S. C. (32a)
 Darner, Phil, Ottumwa, Iowa (14b)
 da Roza & Ribal, Inc., Monterey, Calif. (4b)
 Darrough, W. H., & Sons, Yuba City, Calif. (4b)
 Date, H. G., Cordova, Alaska (50a)
 Datema, Geo., & Sons, Grand Rapids, Mich. (21b)
 Daugette, F. R., Birmingham, Ala. (1a)
 Daugherty & Waters, Knoxville, Tenn. (41b)
 Daughtridge Bldrs., Rocky Mount, N. C. (32a)
 Daum-Donaldson Constr. Co., Phoenix, Ariz. (2a)
 Daum, R. J., Constr. Co., Inglewood, Calif. & Albuquerque, N. Mex. (4d) (30b)
 Davey, Ben O., Las Vegas, Nev. (27b)
 Davey & Moen, Mason City, Iowa (14b)
 David, E. F., House Moving Co., St. Louis, Mo. (24c)
 Davidson, C. F., Co., Tacoma, Wash. (46d)
 Davidson, L. A., Lansing, Mich. (21c)
 Davidson, M. J., St. Louis, Mo. (24b)
 Davies, John R., Los Angeles, Calif. (4d)
 Davies, Keusder & Brown, Los Angeles, Calif. (4d)
 Davis, Ben H., Salt Lake City, Utah (43a)
 Davis, C. C., Constr. Co., New Cumberland, Pa. (37a)
 Davis Constr. Co., Hicksville, N. Y. (31d)
 Davis Constr. Co., Corpus Christi, Texas (42i)
 Davis Constr. Co., Inc., Boonville, Mo. (24b)
 Davis Constr. Co., The, Baltimore, Md. (19a)
 Davis, E. L., Co., Beaufort, N. C. (32a)
 Davis, F. B., Sons, Philadelphia, Pa. (37d)
 Davis, Felix A., Constr. Co., Houston, Texas (42d)
 Davis, Floyd, Albuquerque, N. Mex. (30a)
 Davis-Pace-Shelburne, Dallas, Texas (42f)
 Davis & Platt, Inc., Washington, D. C. (8a)
 Davis, R. H., Stamps, Ark. (3a)
 Davis, S. C., Constr. Co., Inc., Miami Beach, Fla. (9b)
 Davis & Swartz, Bakersfield, Calif. (4d)
 Davis, T. H., Mobile, Ala. (1a)
 Davis, Wick, Rosengarten Co., Inc., Washington, D. C. (8a)
 Davison Constr. Co., Manchester, N. H. (28a)
 Davison, David W., Manchester, N. H. (28a)
 Dawkins, C. T., Tampa, Fla. (9c)
 Dawson Constr. Co., Bellingham, Wash. (46a)
 Dawson, R. R., Bloomfield, Ky. (16a)
 Day & Richardson, Birmingham, Ala. (1a)
 Day & Zimmermann, Inc., Philadelphia, Pa. (37d)
 Dayton, Harry F., Modesto, Calif. (4a)
 Deal, H. B., & Co., Inc., St. Louis, Mo. (24c)
 Deane, B. C., & Gunther & Shirley Co., Sherman Oaks, Calif. (4d)
 DeAtley, F. H., & Co., Lewiston, Idaho (46c)
 DeBolt Constr. Co., Inc., Richmond, Ind. (13a)
 Deer Landscape Co., Neodesha, Kans. (15b)
 Degerstrom, N. A., Spokane, Wash. (46c)
 deGue-Dunham & O'Neill, Atlanta, Ga. (10a)
 DeHaven, R., Inc., Tampa, Fla. (9c)

- Dehner, John, Inc., Fort Wayne, Ind. (13a)
 Deigaard & Preston Bldrs., Inc., Coral Gables, Fla. (9b)
 de Koning, Henry, Constr. Co., Ann Arbor, Mich. (21b)
 DeLashmutt Bros., Inc., Arlington, Va. (45a)
 DeLia, Elis G., & Co., New Hartford, N. Y. (31d)
 Dellinger, J. M., Inc., Corpus Christi, Texas (42f)
 DeLong, C. L., Nebraska City, Nebr. (26b)
 Delphia, John, Patterson, Calif. (4b)
 Delta Constr. Co., Rio Vista, Calif. (4b)
 Delta Constr. Co., Hopewell, N. J. (29a)
 DeLuca Constr. Co., Akron, Ohio (34a)
 De Luca & Son, San Francisco, Calif. (4a)
 Dement, Ivan, Amarillo, Texas (42f)
 Denison, Walter L., Albuquerque, N. Mex. (30a)
 Deniston & Garber, Rochester, Ind. (13a)
 Dennehy Constr. Co., Oklahoma City, Okla. (35a)
 Denni Corp., Wilmington, Calif. (4d)
 Dennis, G. D., & Sons, Portland, Oreg. (36a)
 Dennis, V. R., Constr. Co., San Diego, Calif. (4c)
 Denny, Dale, Constr. Co., Anna, Ill. (12c)
 Dent, Jas. B., Houston, Texas (42d)
 Denton Constr. Co., Detroit, Mich. (21a) (21c)
 Depew Paving Co., Depew, N. Y. (31d)
 DeRuyter Bros., Willmar, Minn. (22a)
 DeSalvo Constr. Co., Cincinnati, Ohio (34b)
 Desert Constr. Co., Las Vegas, Nev. (27b)
 Des Moines Asphalt Paving Co., Des Moines, Iowa (14a)
 Des Moines Steel Co., Des Moines, Iowa (14a)
 Dethlefs & Hannon, Anniston, Ala. (1a)
 Detroit Asphalt Paving Co., Detroit, Mich. (21c)
 Detweiler Bros., Inc., Twin Falls, Idaho (11a)
 Devine, R. P., Watseka, Ill. (12c)
 Dew Constr. Co., Inc., Tyler, Texas (42f)
 DeWitt Co., The, Tulsa, Okla. (35a)
 Diamond Engr. Co., Dallas, Texas (42j)
 Dick Constr. Co., Pittsburgh, Pa. (37b)
 Dickerson & Bowen, Brookhaven, Miss. (17e)
 Dickerson, G. W., San Antonio, Texas (42j)
 Dickerson, Inc., Monroe, N. C. (32a)
 Dickie Constr. Co., St. Louis, Mo. (24c)
 Dickson, Lige, Co., Tacoma, Wash. (46d)
 Dienst, Robt. J., Columbus, Ohio (34d)
 Diesel Oil Sales Co., Seattle, Wash. (46a)
 Dieseth, John, Co., Fergus Falls, Minn. (22a)
 Dietrich, Clarence, Co., Reno, Nev. (27a)
 Dillard, J. E., & Sons, Bessemer, Ala. (1a)
 Dillingham Constr. Co., Valparaiso, Ind. (13a)
 Dillsworth & Pumnea, Helena, Mont. (25a)
 Dilschneider, Ray M., Inc., St. Louis, Mo. (24c)
 Dimeo Constr. Co., Providence, R. I. (38a)
 Dimmitt Constr. Co., Shenandoah, Iowa (14b)
 Dimmitt & Taylor, Monrovia, Calif. (4d)
 Dinardo, Inc., Pittsburgh, Pa. (37c)
 Dinsmore, B. F., Alhambra, Calif. (4b)
 Dinwiddie Constr. Co., Inc., San Francisco, Calif. (4a)
 DiSabatino & Ranieri, Wilmington, Del. (7a)
 Ditmars-Dickmann Constr. Co., Muskogee, Okla. (35a)
 Ditmars-Dickmann-Pickens Constr. Co., Little Rock, Ark. (3a)
 Diulus Constr. Co., Inc., Pittsburgh, Pa. (37c)
 Dixon Bros. Co., Correctionville, Iowa (14a)
 Dixon Constr. Co., Fayetteville, N. C. (32a)
 Dixon, L. E., Co., San Gabriel, Calif. (4d)
 Dixon, S. M., Warren, Ark. (3a)
 Dixon, Ralph O., Santa Margarita, Calif. (4d)
 Dobson Bros. Constr. Co., Lincoln, Nebr. (15b) (26b) (14a)
 Dobson & Robinson, Lincoln, Nebr. (26b)
 Dodds & Wedegartner, Inc., San Benito, Texas (42f)
 Dodge Constr. Inc., Fallon, Nev. (27a)
 Dolph Constr. Co., Dallas, Texas (42a)
 Donahoo, A. G., Contr. Co., Birmingham, Ala. (1a)
 Donahoo, H. N., Birmingham, Ala. (1a)
 Donahue, E. J., Salinas, Calif. (4a)
 Donatelli, Frank, Co., Inc., Pittsburgh, Pa. (37c)
 Dondlinger & Sons Constr. Co., Wichita, Kans. (15a)
 Donnellan, G. P., Atlanta, Ga. (10a)
 Donnelly, I. J., Constr. Co., St. Paul, Minn. (22a)
 Doolittle Constr. Co., Seattle, Wash. (46a)
 Doran, A. L., Peru, Ind. (13b)
 Dorland, E. H., Constr. Co., Salt Lake City, Utah (43a)
 Dotterer Engr. Co., Charleston, S. C. (32a)
 Doty Bros., Bellflower, Calif. (4d)
 Dougherty, A. L., Co., Indianapolis, Ind. (13a) (31d)
 Dougherty, C. J., & Sons, Inc., Wilmington, Del. (7a)
 Dougherty-Liddell Constr. Co., Memphis, Tenn. (41c)
 Douglas Constr. Co., Topeka, Kans. (15a) (15b)
 Douglas, Damon G., Co., Newark, N. J. (1)
 Douglass & Woodhouse, Redwood City, Calif. (4b)
 Dow Constr. Co., Houston, Texas (42d)
 Dowell, L. J., Inc., Seattle, Wash. (46a)
 Dowling Constr. Co., Williamstown, W. Va. (47a)
 Downer Co., Inc., Stockton, Calif. (4b)
 Doyle & Russell, Richmond, Va. (45a)
 Drake, Donald M., Co., The, Portland, Oreg. (36b)
 Drape Constr. Co., Waverly, Iowa (14b)
 Draper, Archie, Red Bluff, Calif. (4b)
 Dravo Corporation, The Contracting Division, Pittsburgh, Pa. (N) (37c) (47a)
 Dreier & Son Constr. Co., Kansas City, Kans. (24a)
 Drescher Co., Milwaukee, Wis. (48a)
 Drew, Jas. H., Co., Indianapolis, Ind. (13b)
 Driscoll, Geo. F., Co., New York City (31c)
 Driver, C. W., Inc., Los Angeles, Calif. (4d)
 Driver Contr. Co., The, Memphis, Tenn. (23a)
 Dudley Constr. Co., Great Falls, Mont. (25b)
 Duesenberg, E. M., Inc., Clear Lake, Iowa (14a)
 Duffey Constr. Co., Inc., Miami, Fla. (9b)
 Duffy Constr. Co., Cleveland, Ohio (34c)
 Duffy, Warren C., Nampa, Idaho (11a)
 Dugdale Constr. Co., Omaha, Nebr. (26b)
 Duhamel, Elmer W., Constr. Co., Phoenix, Ariz. (2a)
 Duinack Bros. & Gilchrist, Olivia, Minn. (22a)
 Dunbar Co., The, Cleveland, Ohio (34c)
 Duncan-Harrelson Co., The, Richmond, Calif. (4b)
 Duncan, Horace O., Fort Worth, Texas (42c)
 Duncan, Lewis A., Houston, Texas (42d)
 Dunkin, W. R., & Son, Inc., Bluffton, Ind. (13b)
 Dunlap & Co., Inc., Columbus, Ind. (13b)
 Dunlap & Johnston, Inc., Cleveland Heights, Ohio (34c)
 Dunn Constr. Co., Inc., Birmingham, Ala. (1a)
 Dunn, J. E., Constr. Co., Kansas City, Mo. (24a)
 Dunn, J. M., & Son, Knoxville, Tenn. (41b)
 Dunn, Louis C., Co., The, San Francisco, & Los Angeles, Calif. (4a) (4d)
 Dunning-Walpole Constr. Co., Oklahoma City, Okla. (35a)
 Durell, E. Clifford, & Son, Inc., Philadelphia, Pa. (37d)
 Durham Elec. Constr. Co., Inc., Durham, N. C. (32a)
 Durrett, Jack, Keota, Okla. (35b)
 Dutcher Constr. Corp., Queenstown, Md. (19b) (31d)
 Dutro, Jas. A., Chico, Calif. (4a)
 Duval Engr. & Contr. Co., Jacksonville, Fla. (9a)
 Duvall, P. K., Inc., Logan, Iowa (14a)
 Dwan Constr. Co., Dorchester, Mass. (20b)
 Dwight Bldg. Co., The, New Haven, Conn. (6a)
 Dye & Mullings, Columbia, Miss. (23b)
 Dyer, A. L., & Sons, McBrides, Mich. (21c)
 Dyer, Hal C., Dallas, Texas (42a)
 Dyker Bldg. Co., Inc., Washington, D. C. (8a)
 Dyson & Co., Pensacola, Fla. (9d)

E

- E. & F. Constr. Co., Inc., The, Bridgeport, Conn. (6a)
 Eady, Geo. M., Co., Louisville, Ky. (16b)
 Eagle Contrs. of Utica, Inc., Utica, N. Y. (31d)
 Eames Tree Expert Co., Plainfield, N. J. (29a)
 Earley, Roy T., Co., Tacoma, Wash. (36a) (46d)
 Early, Fred J., Jr. Co., Inc., San Francisco, & Torrance, Calif. (4a) (4d)
 East Shore Asphalt Co., Alpena, Mich. (21c)
 Eastern Constr. Co., Inc., Dallas, Texas (42m)
 Eastern Highways Corp., Brooklyn, Md. (19b)
 Easton Constr. Co., Ames, Iowa (14a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

Eaton, L. W., Co., Inc., Baton Rouge, La. (17d)
 Eaton & Smith, San Francisco, Calif. (4b)
 Ebeling, Robt. M., Constr. Co., Wheeling, W. Va. (47a)
 Eblen, Orville, Atlantic, Iowa (14a)
 Eby, Martin K., Constr. Co., Inc., Wichita, Kans. (15a)
 Eckert-Fair Constr. Co., Dallas, Texas (42a)
 Eckman, Chas. A., Co., Wilmington, Del. (7a)
 Eddleman, C. C., Philadelphia, Pa. (37d)
 Edgeworth Constr. Co., Corpus Christi, Texas (42i)
 Edison, L. W., Grand Rapids, Mich. (21c)
 Edlisen-Weygandt Co., Portland, Oreg. (36a)
 Edwards Constr. Co., Inc., Coral Gables, Fla. (9b)
 Edwards, Jas. J., San Carlos, Calif. (4b)
 Edwardsville Constr. Co., Edwardsville, Ill. (12c)
 Ehorn, Liston, Red Bluff, Calif. (4a)
 Ehrhart & Arthur, Inc., Los Angeles, Calif. (4d)
 Eian & Ness, Fergus Falls, Minn. (22a)
 Eichelberger & Harwood, Inc., Santa Monica, Calif. (4d)
 Eichley Corp., Pittsburgh, Pa. & San Francisco, Calif. (4b) (37b)
 Eickhof, Otto J., & Sons, Inc., Crookston, Minn. (22a)
 Eidemiller, Adam, Greensburg, Pa. (37c)
 Eidson Constr. Co., Mocksville, N. C. (32a)
 Eiland, Edw. H., Tallulah, La. (17g)
 Eiland, Jas. A., Jr., Bunkie, La. (17f)
 Eiring & Prothero, Hermiston, Oreg. (36a)
 Eisele, John H., Co., Inc., New York City (31c)
 Eisenberg-Marden Corp., Boston, Mass. (20b)
 Eisenhauer, E., Corpus Christi, Texas (42i)
 Eitze-Kitchens Constr. Co., Austin, Texas (42k)
 Ekdahl, Hilding, Cumberland, Iowa (14a)
 Elam Constr. Co., St. Louis, Mo. (24c)
 Elder Constr. Co., Denver, Colo. (5a)
 Eldridge Constr. Co., Enid, Okla. (35a)
 Elford, E., & Son, Inc., Columbus, Ohio (1)
 Ellard Constr. Co., Inc., Birmingham, Ala. (1a)
 Ell-Dorer Constr. Co., Irvington, N. J. (29a)
 Elle, C. H., Constr. Co., Pocatello, Idaho (11a)
 Ellingson, Thos., San Francisco, Calif. (4a)
 Ellington-Miller Co., Chicago, Ill. (12a)
 Elliott Bldg. Co., Hickory, N. C. (32a)
 Elliott Bros., Inc., Perry, Okla. (35b)
 Elliott, C. M., Pasadena, Calif. (4c)
 Elliott, Clyde, Independence, Iowa (14a)
 Elliott, Hiram, Constr. Co., Kansas City, Mo. (24a)
 Ellis, A. J., Constr. Co., Inc., Philadelphia, Pa. (29a)
 Ellis Constr. Co., Ephrata, Wash. (46a)
 Ellis, Edw. H., & Sons, Inc., Merchantville, N. J. (29a)
 Ellis, G. W., Constr. Co., North Hollywood, Calif. (4d)
 Ellis-Nicholson & Cramer, Inc., Oklahoma City, Okla. (35a)
 Ellis, Wm. H., & Son Co., East Boston, Mass. (20a)
 Ellison Constr. Co., Carthage, Ill. (12c)

Elmhurst Contr. Co., Inc., Corona, L. I., N. Y. (31d)
 Elmore & Mackie Constr. Co., Catawba, N. C. (32a)
 El Rio Rock Co., Ventura, Calif. (4d)
 Ely, I. J., Co., San Anselmo, Calif. (4b)
 Elzinga & Volkers, Holland, Mich. (21b)
 Emco Constr. Co., Algona, Iowa (14a)
 Emerson, Sam W., Co., The, Cleveland, Ohio (34c)
 Emme, H. F., Constr. Co., Rapid City, S. Dak. (40a)
 Emory & Richards, Knoxville, Tenn. (41b)
 Empire Constr. Co., Denver, Colo. (5a)
 Empire Constr. Co., Portland, Oreg. (36a)
 Empire Constr. Co., The, Baltimore, Md. (19b)
 Emsco Concrete Cutting Co. of Los Angeles, Los Angeles, Calif. (4d)
 Emsco of San Francisco, San Francisco, Calif. (4a) (4b)
 Emtman, Eric W., Riverside, Calif. (4d)
 Engineered Fixture Systems, Mountain View, Calif. (4b)
 Engineers, Ltd., San Francisco, & Los Angeles, Calif. (4a) (4d)
 English Constr. Co., Altavista, Va. (45a)
 English, Frank G., & Sons, Philadelphia, Pa. (37d)
 English, N. F., Constr. Co., Inc., Hutchinson, Kans. (15a)
 Ensey, John H., Baltimore, Md. (19b)
 Epperson & Co., Sumner, Iowa (14b)
 Equipment Rental & Contr. Co., Houston, Texas (42d)
 Erbenraut & Summers, San Francisco, Calif. (4a)
 Erickson Constr. Co., Assaria, Kans. (15b)
 Erickson Constr. Co., North Sacramento, Calif. (4a)
 Erickson Paving Co., Seattle, Wash. (46a)
 Erickson, Phillips & Weisberg, Oakland, Calif. (4b)
 Ericsson, Henry, Co., Chicago, Ill. (12a)
 Erie Contr. & Engr. Corp., Passaic, N. J. (29a)
 Erland & Blickle, Portland, Oreg. (36a)
 Ernest Asphalt Sales Co., St. Louis, Mo. (12c)
 Ernest Constr. Co., Inc., Mobile, Ala. (1a)
 Ertz, John, Constr. Co., Oklahoma City, Okla. (35b)
 Erwen, Edmund P., Yakima, Wash. (46b)
 Erwin, R. A., Colton, Calif. (4d)
 Esch Constr. Co., Cleveland, Ohio (34c)
 Escherich Bros., Inc., Los Angeles, Calif. (4d)
 Estrin Constr. Co., Kansas City, Mo. (24a)
 Eure, N. F., Beaufort, N. C. (32a)
 Evans, A. N., Columbus, Texas (42d)
 Evans Constr. Co., Springfield, Ill. (1)
 Evans Constr. Co., Kinston, N. C. (32a)
 Evans, Geo. H., & Co., Philadelphia, Pa. (37d)
 Evans, S. E., Constr. Co., Fort Smith, Ark. (3a) (35b)
 Evers Bros., Algona, Iowa (14a)
 Everett, Claude, Inc., Houston, Texas (42j)
 Evert, S. H., Co., Inc., Bloomsburg, Pa. (37a)
 Ewell, J. L., Lakeland, Fla. (9c)
 Ewin Engr. Corp., Mobile, Ala. (1a)
 Eyring, E., & Sons Co., Baltimore, Md. (19a)

F

F. & O. Corp., Daly City, Calif. (4a)
 F. & S. Contr. Co., Butte, Mont. (25a)
 Fadel, Norman I., North Hollywood, Calif. (4d)
 Fagre Constr. Co., Estherville, Iowa (14b)
 Fairfield Trucking Co., Fairfield, Calif. (4b)
 Falasco, T., Los Banos, Calif. (4a)
 Falk, L. R., St. Ansgar, Iowa (14a)
 Far West Constr. Co., San Francisco, Calif. (4b)
 Farina Bros., Newton, Mass. (20b)
 Farish, Robt. A., San Francisco, Calif. (4b)
 Farley, L. E., Inc., Houston, Texas (42m)
 Farnsworth & Chambers Co., Inc., Houston, Texas (42f)
 Farnsworth, R. P., & Co., Inc., Baton Rouge, & New Orleans, La.; Beaumont, Texas (17a) (17d) (17e) (42h)
 Farquhar, Neelley B., Ennis, Texas (42f)
 Farr, R. T., Rogers, Texas (42f)
 Farrell Contr. Co., St. Paul, Minn. (22a)
 Farrell, Jos. R., Philadelphia, Pa. (37d)
 Farrow, E. E., Co., Dallas, Texas (42j)
 Farthing Bros., Streator, Ill. (12a)
 Fatout Bldg. Co., The, Indianapolis, Ind. (13b)
 Fauber Constr. Co., Lafayette, Ind. (13a)
 Fauber, L. Walker, Ashland, Ohio (13a)
 Faulkner Constr. Co., Ferndale, Mich. (21a)
 Faull, Donald L., Santa Rosa, Calif. (4a)
 Faux, C. A., Constr. Co., Houston, Texas (42d)
 Favre, Lionel F., New Orleans, La. (17a)
 Favrot, Gervais F., Co., New Orleans, La. (17a)
 Fay Improvement Co., San Francisco, Calif. (4b)
 Federal Constrs., Inc., Chicago, Ill. (12a)
 Feeney Constr. Co., St. Joseph, Mo. (24b)
 Fegles Constr. Co., Ltd., Minneapolis, Minn. (22a)
 Feibusch, T., Constr. Co., Ukiah, Calif. (4a)
 Feigl Constr. Corp., Evansville, Ind. (13a)
 Fell & Anton, Waterloo, Iowa (14b)
 Feller, L. M., Co., Rochester, Minn. (22a)
 Felmley, John, Co., Bloomington, Ill. (1)
 Ferguson Bros., Oakland, Calif. (4b)
 Ferguson Constr. Co., Dallas, Texas (42j)
 Ferguson-Diehl, Inc., Jefferson, Iowa (14a)
 Ferguson & Edmondson Co., Pittsburgh, Pa. (37c)
 Ferguson, H. K., Co., The, Cleveland, Ohio & Houston, Texas (34c) (42d)
 Ferguson, W. C., Keene, N. H. (28a)
 Ferrante, Anthony, & Son, Inc., Bernardsville, N. J. (29a)
 Ferro Concrete Constr. Co., Cincinnati, Ohio (34b)
 Ferry Constr. Co., Atlantic City, N. J. (29a)
 Ferry, Peter L., & Son, Glendale, Calif. (4d)
 Fessler, Frank, Salina, Kans. (15a)
 Feutz, Frank C., Co., Paris, Ill. (12c)
 Field, C. O., Co., Minneapolis, Minn. (22a)
 Fielding & Shepley, Inc., St. Paul, Minn. (22a) (46a)
 Fielland, C. A., Inc., Tampa, Fla. (9c)
 Fife & Stoddard, Gridley, Calif. (4a)
 Fiksdal & Ness, Seattle, Wash. (46b)
 Findorff, J. H., & Son, Inc., Madison, Wis. (48b)

- Fine, W. M., Spartanburg, S. C. (32a)
 Fiorito Bros., Seattle, Wash. (46a)
 Fiorito, N., Co., Seattle, Wash. (46a)
 Fisher, Alfred P., San Francisco, Calif. (4a)
 Fisher, Claude, Co., Ltd., Los Angeles, Calif. (4d)
 Fisher Constr. Co., Houston, Texas (42d)
 Fisher Contr. Co., Phoenix, Ariz. (2a)
 Fisher-DeVore Constr. Co., Cincinnati, Ohio (34b)
 Fisher, J. M., Norman, Okla. (35b)
 Fisher, L. S., Woodward, Okla. (35b)
 Fisher, O. B., & Sons, Logan, W. Va. (47a)
 Fiske-Carter Constr. Co. of S. C., Spartanburg, & Greenville, S. C. (32a)
 Fitchett, Leslie, & Son, Merced, Calif. (4a)
 Fitch-Eva Co., The, Howell, Mich. (21c)
 Fitzgerald Bros. Constr. Co., Inc., Troy, N. Y. (31d)
 Fitzgerald Engr. & Constr. Co., Los Angeles, Calif. (4d)
 Fitzmaurice, J. H., Oakland, Calif. (4a)
 FitzSimons & Connell Dredge & Dock Co., Chicago, Ill. (12a)
 Flagler Co., The, Atlanta, Ga. (10a)
 Flanders Constr. Co., Houston, Texas (42d)
 Flanigan, P., & Sons, Inc., Baltimore, Md. (19b)
 Flaten, Ole, Minot, N. Dak. (22a)
 Fleisher Engr. & Constr. Co., Minneapolis, Minn. (22a)
 Fleming Co., Philadelphia, Pa. (37d)
 Fleming, Edw. M., Constr. Co., Miami, Fla. (9b)
 Fleming & Kilgo Constr. Co., East Alton, Ill. (12c)
 Flenniken Constr. Co., Shreveport, La. (17c)
 Flett Constr. Co., Kansas City, Mo. (24a)
 Flint Bros. Constr. Co., Jackson, Miss. (23b)
 Fluor Bros. Constr. Co., Oshkosh, Wis. (48b)
 Fluor Corp., Ltd., The, Los Angeles, Calif. (4d)
 Flynn, Jos. P., Providence, R. I. (38a)
 Flynn, T. P., & Co., Detroit, Mich. (21c)
 Foard, Edison, Charlotte, N. C. (32a)
 Foard, Ernest, Charlotte, N. C. (32a)
 Focht, L. H., & Son, Inc., Reading, Pa. (37a)
 Fogel Contrs., Inc., Kansas City, Mo. (24a)
 Fogelberg, O. A., Lafayette, Calif. (4b)
 Foley Brothers, Inc., Ajo, Ariz. (2a)
 Foley Brothers, Inc., St. Paul, Minn. (22a)
 Foley Brothers, Inc., Pleasantville, N. Y. (N)
 Foley Constr. Co., Cincinnati, Ohio (34b)
 Foley, Robt. E., Constr. Corp., Binghamton, N. Y. (31d)
 Folsom Constr. Co., Denver, Colo. (5a)
 Fontana, D. M., Wilmington, Del. (7a)
 Forcum-James Co., Dyersburg, Tenn. (N) (23a)
 Ford, Bacon & Davis Constr. Corp., Monroe, La.; New York, N. Y. & Charleston, W. Va. (N) (17g)
 Ford Constr. Co., Janesville, Wis. (48b)
 Ford, E. Paul, San Diego, Calif. (4c)
 Ford, R. W., Marion, Ill. (12c)
 Forde, E. A., San Anselmo, Calif. (4b)
 Furdice Constr. Co., Memphis, Tenn. (23a)
 Foreman, C. S., Co., Kansas City, Mo. (24b) (42m)
 Forest City Improvement Co., Forest City, Iowa (14b)
 Forgey Constr. Co., Casper, Wyo. (49a)
 Forgy Constr. Co., San Antonio, Texas (42e)
 Fors, Carl S., Co., Murray, Utah (43a)
 Forsgren Bros., Fort Smith, Ark. (3a)
 Forster, A. J., Paola, Kans. (15b)
 Foshee, D. O., Inc., Jacksonville, Fla. (9a)
 Foskin & Olson, Phoenix, Ariz. (2a)
 Foster & Bamford, Inc., Concord, N. H. (28a)
 Foster Bros., Port Arthur, Texas (42h)
 Foster & Creighton Co., Nashville, Tenn. & Birmingham, Ala. (1a) (41d)
 Foster, J. M., & Co., Gary, Ind. (13b)
 Foster, Karl B., Flint, Mich. (21b)
 Foster & McHarg, Riverside, Calif. (4d)
 Foster Schermerhorn Foster, Inc., Lansing, Mich. (21b)
 Foster-Smetana Co., Omaha, Nebr. (26a)
 Foster, W. A., Constr. Co., Burlington, N. C. (32a)
 Foster Wheeler Corp., Point Richmond, Calif. (4b)
 Fowler-Jones Constr. Co., Winston-Salem, N. C. (32a)
 Fowler-Veranth Constr. Co., Duluth, Minn. (22a)
 Fox, Delton T., Bridgeton, N. J. (29a)
 Fox & Fox, St. Petersburg, Fla. (9c)
 Fox, H. H., Constr. Co., Kansas City, Mo. (24a)
 Fox Valley Constr. Co., Appleton, Wis. (21c)
 Foy, M. C., & Son, Los Angeles, Calif. (4d)
 France, Geo. E., Visalia, Calif. (4b)
 Franceschi Constr. Co., San Francisco, Calif. (4a)
 Francies Constr. Co., Santa Rosa, Calif. (4b)
 Frank, D. T., Constr. Co., East Lansing, Mich. (21c)
 Frank, J. S., Salina, Kans. (15a)
 Frank, P. L., Constr. Co., Ravenna, Ohio (34a)
 Frankenfeld Constr. Co., Winfield, Kans. (15a)
 Franklin Asphalt Co., Benton, Ill. (12c)
 Franklin Contr. Co., Newark, N. J. (29a)
 Franks Dredg. Co., Astoria, Oreg. (36a)
 Frantz Constr. Co., The, Baltimore, Md. (19a)
 Frapaul Constr. Co., Rochelle Park, N. J. (29a)
 Fraser, Carlisle G., St. Paul, Minn. (22a)
 Fraser, J. K., Constr. Co., Inc., Fort Smith, Ark. (3a)
 Frazier Constr. & Materials Co., Oklahoma City, Okla. (35b)
 Frazier-Davis Constr. Co., St. Louis, Mo. (24c)
 Fredericksen & Kasler, Sacramento, Calif. (4b)
 Frederickson-Parks, Inc., Oklahoma City, Okla. (35a)
 Fredman, J. A., Pontiac, Mich. (21a)
 Fredrickson Bros., Emeryville, Calif. (4b)
 Fredrickson & Watson Constr. Co., Oakland, Calif. (4b)
 Freeland Constr. Co., Pittsburgh, Pa. (37c)
 Freeland, Jack, & Co., Bandera, Texas (42f)
 Freeman Constr. Co., Inc., Spring Valley, Minn. (22a)
 Freeman, Jesse H., Inc., Moline, Ill. (12c)
 Freeman & Jones, Inc., Cleveland, Ohio (34c)
 Freethy, Elmer J., El Cerrito, Calif. (4a)
 Freeto Constr. Co., Inc., Pittsburg, Kans. (15b)
 Freigang Constr. Co., Tacoma, Wash. (46d)
 French, Geo., Jr., Stockton, Calif. (4b)
 Fretz Constr. Co., Houston, Texas (42d)
 Fricke, H. C., Alliance, Nebr. (26a)
 Friedman Constr. Co., Fort Worth, Texas (42c)
 Friel, E. B., & Son, Washington, D. C. (8a)
 Frisbie, J. W., Kansas City, Mo. (15b)
 Frisinger, John H., Inc., Ann Arbor, Mich. (21c)
 Frisinger, Max R., Ann Arbor, Mich. (21c)
 Fritz Constr. Co., Madison, Wis. (48b)
 Fritz, W. G., Co., Inc., West Orange, N. J. (29a)
 Frontier Bldrs., Las Vegas, Nev. (27b)
 Frost Constr. Co., Hydro, Okla. (35b)
 Frouge Constr. Co., Inc., Bridgeport, Conn. (6a)
 Frowine Constr. Corp., Portsmouth, Ohio (34d)
 Fruin-Colnon Contr. Co., St. Louis, Mo. (12d) (24c)
 Fry & Kain, Lansing, Mich. (21c)
 Fry, Roy U., Ada, Okla. (35b)
 Frye, R. L., Carthage, N. C. (32a)
 Fuel Economy Engr. Co., St. Paul, Minn. (22a)
 Fuesco, C. A., & Co., Dallas, Texas (42a)
 Fulcher-Burgher Constr. Co., Austin, Texas (42k)
 Fulghum, Geo. A., & Co., Memphis, Tenn. (41c)
 Fulghum, Kenneth, Inc., Pensacola, Fla. (9d)
 Fulk & Needham, Pilot Mountain, N. C. (32a)
 Fullan Constr. Co., Scottsbluff, Nebr. (26a)
 Fuller-Davies Co., The, Cincinnati, Ohio (16a)
 Fuller, Geo. A., Company, New York, N. Y.; Chicago, Ill.; Baltimore, Md.; Boston, Mass.; Washington, D. C.; Pittsburgh, Pa. (N) (12a) (31c)
 Fuller, W. A., & Sons, Barnwell, S. C. (32a)
 Fullerton & Hussey, Oklahoma City, Okla. (35b)
 Fullmer Bros., Salt Lake, Utah (43a)
 Fulton Constr. Co., Houston, Texas (42d)
 Fulton, E. A., Boise, Idaho (11a)
 Fulton, R. H., & Co., Lubbock, Texas (42m)
 Fulton, W. D., Constr. Co., Oklahoma City, Okla. (35b)
 Funderburk Constr. Co., Arlington, Wash. (46a)
 Furr, D. O., Constr. Co., Shreveport, La. (17b)
 Fusco-Amatruda Co., The, New Haven, Conn. (6a)
 Fusco, J. R., Inc., Montclair, N. J. (29a)

G

- G-I Constr. Co., Meeker, Okla. (35b)
 Gaasland Co., Inc., Bellingham, Wash. & Denver, Colo. (5a) (46b) (50a)
 Gaines Bros., Miami, Okla. (35b)
 Galiardi Constr. & Supply Co., Connellsville, Pa. (37c)
 Gallagher Asphalt Co., Inc., Thornton, Ill. (12c)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Gallagher & Burk, Inc., Oakland, Calif. (4b)
 Gallant, C. W., Inc., Charlotte, N. C. (32a)
 Gallespie Constr. Co., Jacksonville, Fla. (9a)
 Callimore, L. B., Greensboro, N. C. (32a)
 Gallinger Constr. Co., Gardena, Calif. (4d)
 Gallo, Thos., Irvington, N. J. (29a)
 Gamble Constr. Co., St. Louis, Mo. (24c)
 Games, Earl E., Reno, Nev. (27a)
 Ganley, Ernest M., Co., Inc., Minneapolis, Minn. (22a)
 Ganley, Howard, Inc., St. Paul, Minn. (22a)
 Gannaway, F. J., Norfolk, Va. (45a)
 Ganschinietz, Ferd., East St. Louis, Ill. (12d)
 Ganther, Ben B., Co., Oshkosh, Wis. (48b)
 Garavaglia, Louis, Centerline, Mich. (21c)
 Gardenhire Bros., Inc., Bartow, Fla. (9c)
 Gardner Constr. Co., Glenwood Springs, Colo. (5b)
 Gardner Constr. Co., Nashville, Tenn. (41d)
 Gardner, Elmer C., Inc., Houston, Texas (42j)
 Gardner, W. W., Salt Lake City, Utah (43a)
 Garff, Mark B., Ryberg & Garff, Salt Lake City, Utah (43a)
 Garland Constr. Co., Ltd., Rayville, La. (17g)
 Garmer & Stiles Co., Des Moines, Iowa (14b)
 Garmong, C. H., & Son, Terre Haute, Ind. (13b)
 Garms, Grady, Little Rock, Ark. (3a)
 Garon Constr. Co., Inc., Manchester, N. H. (28a)
 Garriott, Jay A., Bedford, Ind. (13b)
 Gaspard Constr. Co., The, Cleveland, Ohio (34c)
 Gast Constr. Co., Warsaw, Ind. (13a)
 Gast & Ray Contr. Co., Louisiana, Mo. (24b)
 Gates, E. L., Inc., Roseburg, Oreg. (36a)
 Gates & Ragsdale Constr. Co., Inc., Tampa, Fla. (9c)
 Gaylord Constr. Co., Houston, Texas (42f)
 Gebhard-Berghammer, Inc., Milwaukee, Wis. (48a)
 Gee Constr. Co., Shenandoah, Iowa (14a)
 Geer-Maurer Constr. Co., Grand Island, Nebr. (26a)
 Geery, Glenn, Inc., Missoula, Mont. (25a)
 Gehring, F. P., Atchison, Kans. (15a)
 Gehron, Jacob, Co., Inc., The, Williamsport, Pa. (37a)
 Geiger Constr. Co., Sheldon, Iowa (14b)
 Geiger, E. W., Inc., Topeka, Kans. (15b)
 Gellatly Constr. Co., The, Bridgeport, Conn. (6a)
 General Bldrs. Co., Springfield, Ill. (12c)
 General Constr. Co., Shreveport, La. (17b) (17e)
 General Constr. Co., Columbia, S. C. (32a)
 General Constr. Co., Fort Worth, Texas (42f)
 General Construction Company, Seattle, Wash. & Portland, Oreg. (N) (36a) (46a)
 General Constr. Corp., Oklahoma City, Okla. (35b)
 General Contr. Co., Charleston, S. C. (32a)
 General Contr. Co., Inc., Granite City, Ill. (12d)
 General Dredg. Co., Inc., Fort Wayne, Ind. (13a)
 General Engr. Co., Topeka, Kans. (15b)
 General Engr. Corp., Florence, S. C. (32a)
 General Paving Co., Champaign, Ill. (12c)
 General Paving Constr. Co., Grand Rapids, Mich. (21c)
 George Constr. Co., Houston, Texas (42j)
 George, Henry, & Sons, Spokane, Wash. (46e)
 George, J. D., Co., Houston, Texas (42j)
 George & Lynch Co., Wilmington, Del. (7a)
 Georgia Southern Constr. Co., Macon, Ga. (10a)
 Gerhold Co., Columbus, Nebr. (26b)
 Germer, Abbott & Waldron Constr. Co., Tremonton, Utah (43a)
 Gerometta Constr. Co., Gary, Ind. (13b)
 Gerwick, Ben C., Inc., San Francisco, Calif. (4b)
 Gessler Contr. Co., Inc., Syracuse, N. Y. (31d)
 Gethmann Constr. Co., Inc., Gladbrook, Iowa (14b)
 Getman Bros., South Haven, Mich. (21c)
 Geupel, Carl M., Constr. Co., Indianapolis, Ind. (13b)
 Geyer, Harold C., Monterey, Calif. (4a)
 Gibbons, Jas., Co., The, Relay, Md. (19b)
 Gibbons & Reed Co., Salt Lake City, Utah (43a)
 Giblin, L. J., Groves, Texas (42b)
 Gibson, John H., Durham, N. C. (32a)
 Gien, Seth E., & Assos., Memphis, Tenn. (41c)
 Giersten, Walter D., Co., Minneapolis, Minn. (22a)
 Gifford-Hill & Co., Inc., Dallas, Texas (42f)
 Gilbane Bldg. Co., Providence, R. I. (38a)
 Gilbert Bros., Monroe, La. (17g)
 Gilbert Engr. Co., Inc., Statesville, N. C. (32a)
 Gilchrist Constr. Co., Las Cruces, N. Mex. (30b)
 Giles, Robt. A., Stockton, Calif. (4b)
 Gill, Harry, Co., Philadelphia, Pa. (37d)
 Gilliland Constr. Co., Alpena, Mich. (21c)
 Gillisse, John & Paul, Grandville, Mich. (21c)
 Gillmore, Carmichael & Olson Co., The, Cleveland, Ohio (34c)
 Gillotti Constr. Co., Des Moines, Iowa (14a)
 Gilmore, E. E., Co., Omaha, Nebr. (26a)
 Gilpatrick, M. J., Constr. Co., Riverton, Wyo. (49a)
 Gilpin Construction Co., The, Portland, Oreg. (N) (36a)
 Giordano Constr. Co., Branford, Conn. (6a)
 Girvin & White, Jacksonville, Fla. (9a)
 Gist, John C., Sacramento, Calif. (4b)
 Gjellefald Constr. Co., Forest City, Iowa (14a)
 Glade Constr. Co., Fort Worth, Texas (42j)
 Glaser, A. J., Co., Inc., Muncie, Ind. (13b)
 Glass Constr. Co., Beldvidere, Ill. (12b)
 Glenn Constr. Co., Charlotte, N. C. (32a)
 Glenroy Co., Indianapolis, Ind. (13b)
 Globe Constr. Co., Kalamazoo, Mich. (21c)
 Globe Constr. Co., Wichita, Kans. (15b)
 Globe Constr. Co., Inc., New Orleans, La. (17a)
 Glover, Geo. J., Co., New Orleans, La. (17a)
 Godley-Hinnant, Inc., Wilmington, N. C. (32a)
 Goetting, E., & Sons, Tacoma, Wash. (46d)
 Goetz & Brennan, Seattle, Wash. (46a)
 Goforth, Earl, Amarillo, Texas (42g)
 Goggan, W. J., Houston, Texas (42d)
 Goldberg, A. N., Inc., New Orleans, La. (17a) (17e)
 Golden, M. H., Constr. Co., San Diego, Calif. (4c)
 Golder Constr. Co., Inc., Philadelphia, Pa. (37d)
 Goldman, Perry J., Constr. Co., Philadelphia, Pa. (37d)
 Good Roads Engr. & Contr. Co., Inc., Wantagh, N. Y. (31d)
 Goode Constr. Corp., Charlotte, N. C. (32a)
 Goode & Schroeder, Inc., Los Angeles, Calif. (4d)
 Goodenough, Wells P., Palo Alto, Calif. (4a)
 Goodfellow Bros., Inc., Wenatchee, Wash. (46a)
 Gooding, O. E., & Co., Ypsilanti, Mich. (21c)
 Goodwin, C. J., Pittsburgh, Pa. (27b)
 Goodwin, Carl, & Sons, Allegan, Mich. (21c)
 Goodwin Constr. Co., Inc., Danville, Ind. (13a)
 Goral & Meyer, Los Angeles, Calif. (4d)
 Gordon Constr. Co., Denver, Colo. (5b)
 Gore, P. E., Webb, Okla. (35b)
 Gorham, Gordon C., Oklahoma City, Okla. (35b)
 Gorman Constr. Co., Flemingsburg, Ky. (16a)
 Goss, Wm. R., Co., Chicago, Ill. (12a)
 Gossen Constr. Co., Lafayette, La. (17f)
 Gould Constr. Co., The, Davenport, Iowa & San Carlos, Calif. (4a) (14a)
 Gould & Cross, Gardena, Calif. (4d)
 Gould & Cross, Grand Rapids, Mich. (21c)
 Goulter, K. L., & Co., Dexter, Oreg. (36a)
 Govan, Hugh, Port Angeles, Wash. (46a)
 Grabbe, H. A., Constr. Co., Alton, Ill. (12d)
 Grace Constr. & Supply Co., The, Fort Wayne, Ind. (13a)
 Gradle Bros., Inc., Carmel, Ind. (13a)
 Grady Bros., Inc., Indianapolis, Ind. (13a)
 Grafe-Callahan Constr. Co. & Gunther & Shirley, Los Angeles, Calif. (4d)
 Gragg, O. R., Henryetta, Okla. (35b)
 Graham & Jensen, Merced, Calif. (4a)
 Graham-Keeling Corp., Miami, Fla. (9b)
 Graham, P. A., Shreveport, La. (17b)
 Graham, W. E., & Sons, Cleveland, N. C. (32a)
 Graham, Wilbur L., Kalispell, Mont. (25b)
 Grand Rapids Asphalt Paving Co., Grand Rapids, Mich. (21c)
 Grandview Constr. Corp., The, Mt. Vernon, N. Y. (31d)
 Grandy, E. F., Laguna Beach, Calif. (4d)
 Granger Bros., Lansing, Mich. (21b)
 Granite Bituminous Paving Co., St. Louis, Mo. (12c) (24b) (24c)
 Granite Constr. Co., Watsonville, Calif. (4b) (4d)
 Grannis & Sloan, Inc., Fayetteville, N. C. (32a)
 Grant Constr. Co., Coeur d'Alene, Idaho (46c)
 Grantwood Contr. Co., Inc., Webster Groves, Mo. (24b) (24c)
 Grau, H. C., Sr., Philadelphia, Pa. (37d)
 Graves Bros. Co., Melvin, Iowa (14a)
 Gravier & Harper, Alexandria, La. (17f)
 Gray, C. E., Emporia, Kans. (15b)
 Gray Constr. Co., Carthage, Texas (42n)
 Gray, Len, Brentwood, Mo. (24b)
 Gray, W. A., Constr. Co., Shreveport, La. (17b)
 Grays Harbor Constr. Co., Aberdeen, Wash. (46a)
 Great Lakes Dredge & Dock Co., New Orleans, La. (23a)

Gredvig, Maurice, Yakima, Wash. (46a)
 Green Constr. Co., Des Moines, Iowa (14a)
 Green, Edw., Co., Los Angeles, Calif. (4d)
 Green Island Constr. Co., Watervliet, N. Y. (31d)
 Green, Jas. E., Johnson City, Tenn. (41e)
 Green, M. L., Woodville, Miss. (17e)
 Green, Mont J., & Co., Manhattan, Kans. (15a)
 Green & Odegard, Inc., Hartford, Conn. (6a)
 Green, Ralph, & W. L. Groesbeck, Des Moines, Iowa & Lincoln, Nebr. (14a) (26b)
 Greene & Gust Co., Chicago, Ill. (12a)
 Greene, Paul N., Co., Fort Wayne, Ind. (13a)
 Greene, Wm. H., Westbury, N. Y. (31d)
 Greenhill Engr. Co., Inc., Washington, D. C. (8a)
 Greenwald, Roy, La Feria, Texas (42o)
 Gregory, Artie, Little Rock, Ark. (3a)
 Gregory, J. M., Raleigh, N. C. (32a)
 Gregory & Poole, Inc., Raleigh, N. C. (32a)
 Gremillion, A. A., & Co., Alexandria, La. (17f)
 Gremillion Bros., Alexandria, La. (17f)
 Gresham Constr. Co., Santa Clara, Calif. (4a)
 Gresham, E. T., Co., Inc., Norfolk, Va. (45a)
 Gridley Constr. Co., Oxnard, Calif. (4d)
 Griffin Constr. Co., Atlanta, Ga. (10a)
 Griffin, John F., Co., Cambridge, Mass. (20b)
 Griffin, Norwood, Co., Atlanta, Ga. (10a)
 Griffiths, G. G., Inc., Tulsa, Okla. (42m)
 Griffith Co., Los Angeles, & San Diego, Calif. (4c) (4d)
 Griffiths, John, & Son Constr. Co., Chicago, Ill. (12a)
 Grigg & Arthur Constr. Co., Inc., Reidsville, N. C. (32a)
 Griggs, Raymond, Clovis, N. Mex. (30b)
 Grimshaw, W. R., Co., Tulsa, Okla. (35a)
 Groneman & Co., Provo, Utah (43a)
 Groomes Constr. Co., Cheswick, Pa. (37b)
 Grosshans & Petersen, Marysville, Kans. (15b) (26b)
 Grosz, M. J., Ft. Dodge, Iowa (14b)
 Grove, Cecil B., San Diego, Calif. (4c)
 Grove, M. J., Lime Co., Lime Kiln, Md. (19b)
 Grove Shepherd Wilson & Kruege, Inc., New York City; Washington, D. C. (8a) (31c)
 Groves, Lundin & Cox, Inc., Minneapolis, Minn. (22a)
 Groves, S. J., & Sons Co., Springfield, Ill.; Minneapolis, Minn.; Woodbridge, N. J. & New York City (12c) (22a) (25a) (29a) (31d)
 Grundeman Constr. Co., Holton, Kans. (15b)
 Gunther, Gaylord S., & Co., Inc., Niagara Falls, N. Y. (31a)
 Guerin Co., South San Francisco, Calif. (4d)
 Guerin, R. B., & Co., South San Francisco, Calif. (4b)
 Guest, C. M., & Sons, Anderson, S. C. & Greensboro, N. C. (32a)
 Guion, A. H., & Co., Charlotte, N. C. (32a)
 Gulf Bitulithic Co., Houston, Texas (42f)
 Gulf Constr. Co., Mobile, Ala. (1a)
 Gund Graham Co., Freeport, Ill. (12c)

Gunit Concrete & Constr. Co., Houston, Texas (42d)
 Gunn Constr. Co., Los Angeles, Calif. (4d)
 Gunneau, Edw. C., Charleston, W. Va. (47a)
 Gunsallus, L. H., & Son, Kendallville, Ind. (13a)
 Gunther, H. H., Constr. Co., Galesburg, Ill. (12c)
 Gustafson, Dave, & Co., Inc., Sioux Falls, S. Dak. (40a)
 Gustafson, Frank N., & Sons, Inc., Providence, R. I. (38a)
 Gustafson, S. E., Constr. Co., Sioux Falls, S. Dak. (40a)
 Gutmann, John B., Constr. Co., Inc., St. Louis, Mo. (24c)

H

H' & H Constr. & Supply Co., Thomasville, Ga. (10a)
 H. & H. Contr. Co., Bossier City, La. (17e)
 Haagenson & Tranby, McIntosh, Minn. (22a)
 Haake, Floyd, Santa Fe, N. Mex. (5b) (30a)
 Haas, E. T., Co., Belmont, & East Los Angeles, Calif. (4b) (4d)
 Haas & Rothschild, San Francisco, Calif. (4b)
 Haase Constr. Co., New Orleans, La. (17a)
 Habertier Constr. Co., Cody, Wyo. (49a)
 Hable, E. W., & Sons, Corsicana, Texas (42f)
 Hackbarth, Orlo C., & Sons, Santa Cruz, Calif. (4a)
 Haddock Engineers, Ltd., Montebello, Calif. & Los Alamos, N. Mex. (4d) (30b)
 Haddock Engrs., Ltd. & Assos., Santa Fe, N. Mex. (50a)
 Haddock, J. E., Ltd., Pasadena, Calif. (4d)
 Haddock, W. D., Constr. Co., Wilmington, Del. (7a)
 Haegg Constr. Co., Cedar Rapids, Iowa (14a)
 Haeseler, A. H., Bldg. & Contr. Co., St. Louis, Mo. (24c)
 Hafer, Guy J., Chambersburg, Pa. (37a)
 Hagen, Harry J., Globe, Ariz. (2a)
 Hagerman Constr. Corp., Fort Wayne, Ind. (13b)
 Haggart Constr. Co., The, Fargo, N. Dak. (22a) (40a)
 Haggerty-Messmer Co., Bozeman, Mont. (25b)
 Haglin, C. F., & Sons, Inc., Minneapolis, Minn. (22a)
 Hagman, Henry, Cashmere, Wash. (46c)
 Hahn-St. John, Hawthorne, Calif. (4d)
 Hahner & Foreman, Wichita, Kans. (15a)
 Haigh, Jos., & Sons Co., Chicago, Ill. (12a)
 Hailey, W. L., & Co., Nashville, Tenn. (41d)
 Hair, H. W., Weirton, W. Va. (47a)
 Hait, C. M., & Son, Charlotte, N. C. (32a)
 Hall-Atwater Co., Seattle, Wash. (46b)
 Hall Bros. Constr. Co., Marysville, Kans. (15b)
 Hall Constr. Co., Atlanta, Ga. (10a)
 Hall Constr. Co., Tacoma, Wash. (46d)
 Hall, E. C., Co., Portland, Oreg. (36a)
 Hall, Guy E., Bakersfield, Calif. (4d)
 Hall, H. H., Constr. Co., East St. Louis, Ill. (12c) (12d)
 Hall, W. E., Constr. Co., Alhambra, Calif. (4d)
 Hall, Wesley, Brownwood, Texas (42f)
 Hallahan, John P., Inc., Philadelphia, Pa. (37d)
 Halleran Bros., Seattle, Wash. (46a)
 Hallett Constr. Co., Crosby, Minn. (22a)
 Hallman Bros., Atlanta, Ga. (10a)
 Halloran & Gill, Bakersfield, Calif. (4d)
 Halper Constr. Corp., Los Angeles, Calif. (4d)
 Halprin, Jack A., Inc., New Haven, Conn. (6a)
 Halvorson, Carl M., Portland, Oreg. (25a)
 Halvorson, Carl M., Inc., Portland, Oreg. (36a) (36b)
 Halvorson Constr. Co., Salem, Oreg. (11a)
 Halvorson Contrs., Goleta, Calif. (4d)
 Halvorson, H., Inc., Spokane, Wash. (46c) (46e)
 Hamann Constr. Co., Manitowoc, Wis. (48b)
 Hamer Bros., Inc., Detroit, Mich. (21a)
 Hamilton Bldrs., Olympia, Wash. (46d)
 Hamilton Constr. Co., Inc., Miami, Fla. (9b)
 Hamilton & Thoms, Eugene, Oreg. (36a)
 Hamm, Daniel, Drayage Co., St. Louis, Mo. (24c)
 Hammond, H. W., Denver, Colo. (5a)
 Hammond, Ross B., Co., Portland, Oreg. (36b)
 Hampshire Corp., The, Baltimore, Md. (19a)
 Hancock Co., Mobile, Ala. (1a)
 Hand, W. H., & Son, Belmont, N. C. (32a)
 Handley, Wm. N., Richmond, Mo. (24b)
 Hanes, C. M., Constr. Co., Denver, Colo. (5b)
 Hannaford Constr. Co., Tulsa, Okla. (35a)
 Hansen, Arthur V., Co., Cedar Falls, Iowa (14b)
 Hansen, Chris, Sioux City, Iowa (14b)
 Hansen, D. G., Logan, Kans. (15b)
 Hansen, John, San Diego, Calif. (4c)
 Hansen, Ole, & Sons, Inc., Pleasantville, N. J. (29a)
 Hansen & Parr Constr. Co., Spokane, Wash. (25a) (46c)
 Hanson, A. J., Co., Pineville, La. (23a)
 Hanson Constr. Co., Washington, Iowa (14a)
 Hanson, Frank W., Indianapolis, Ind. (13b)
 Hanson, Olene, Houston, Texas (42f)
 Happel, H. J., Constr. Co., Tulsa, Okla. (42j)
 Harbert & Cargile, Inc., Mobile, Ala. (1a)
 Hardaway Constr. Co., Columbus, Ga. & Columbia, S. C. (10a) (32a)
 Hardin, Ira H., Co., Atlanta, Ga. (10a)
 Harding Blasting Co., Portland, Oreg. (36a)
 Hardison, J. T., & Son, Washington, N. C. (32a)
 Hardison, J. W., Yakima, Wash. (46a)
 Hardy-Stevens Co., New Orleans, La. (17a)
 Haren & Laughlin Constr. Co., Kansas City, Kans. (24a)
 Harfst-Henson, Seattle, Wash. (46b)
 Harfst, Walter W., Inc., Seattle, Wash. (46b)
 Hargrave Constr. Co., Cedar Rapids, Iowa (14a)
 Haring, Daniel, Co., Clinton, Iowa (14b)
 Harkins Co., Inc., Oakland, Calif. (4b)
 Harlan Constr. Co., Republican City, Nebr. (26b)
 Harlin, E. L., West Plains, Mo. (24b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Harlee-Quattlebaum Constr. Co., Florence, S. C. (32a)
- Harlos Constr. Co., Bloomington, Ind. (13b)
- Harman Bros., Grafton, W. Va. (47a)
- Harmeling, Carl C., Stockton, Calif. (4b)
- Harmon Constr. Co., Oklahoma City, Okla. (15a) (35a)
- Harms Bros., Sacramento, Calif. (4b)
- Harms, W. C., Fort Worth, Texas (42c)
- Harney, Chas. L., Inc., San Francisco, Calif. (4b)
- Harper, J. A., Crowville, La. (17g)
- Harper, L. F., Great Bend, Kans. (15b)
- Harper, W. L., Co., Cincinnati, Ohio (34b)
- Harr & Horton, Portland, Oreg. (36a)
- Harrel Bros., Marion, Ind. (13b)
- Harrington Constr. Co., Stockton, Calif. (4b)
- Harrington, Rex N., Tacoma, Wash. (46d)
- Harris Bros., Faulkton, S. Dak. (40a)
- Harris, E. L., & Son, Charleston, W. Va. (47a)
- Harris & Fjeldheim, Inc., Menlo Park, Calif. (4a)
- Harris, J. Henry, Berkeley, Calif. (4b)
- Harris, Leonard W., Charleston, W. Va. (47a)
- Harris-McBurney Co., Jackson, Mich. (21c)
- Harris, Sim J., Co., San Diego, Calif. (4c)
- Harrison Bros. Co., The, Tacoma, Wash. (46d)
- Harrison & Burrowes, Inc., Jersey City, N. J. (31d)
- Harrison, C. H., Waco, Texas (42j)
- Harrison Construction Company, Pittsburgh, Pa. (N) (37c) (47a)
- Harrison Constr. Co., Maryville, Tenn. (41b)
- Harrison Constr. Co., The, Denver, Colo. (5b)
- Harrison, E. E., Corpus Christi, Texas (42i)
- Harrison Engr. & Constr. Corp., Kansas City, Mo. & Texas City, Texas (12c) (14a) (15b) (24b) (42f)
- Harrison, H. L., & Son, Inc., Westfield, N. J. (29a)
- Harrison, M. R., Constr. Corp., Miami, Fla. (9b)
- Hart Constr. Co., Kingsport, Tenn. (41c)
- Hart Constr. Co., Tacoma, Wash. (46d)
- Hart & Hart, Providence, Ky. (13a)
- Hartford, R. R., Inc., Manchester, N. H. (28a)
- Harting, W. C., Constr. Co., St. Louis, Mo. (24c)
- Hartung Constr. Co., Inc., Tampa, Fla. (9c)
- Harty Constr. Co., Boston, Mass. (20b)
- Harvey Constr. Co., El Monte, Calif. (4d)
- Harvey Constr. Co., Inc., Manchester, N. H. (28a)
- Harvey, Geo. R., & Son, Danville, Ind. (13a)
- Harvey, John J., Co., New Hartford, N. Y. (31d)
- Harvey, L. A., Jackson, Miss. (23b)
- Harvey & Rose, Arcadia, Calif. (4d)
- Hasler, M. H., Constr. Co., Santa Ana, Calif. (4d)
- Hasslen & Sons, Ortonville, Minn. (22a)
- Hathaway, E. A., & Co., San Jose, Calif. (4a)
- Haugen & Mark, Fergus Falls, Minn. (22a)
- Hauser Constr. Co., Portland, Oreg. (36a)
- Haverstick-Borthwick Co., Philadelphia, Pa. (31d)
- Havlik, John, Jr., Scappoose, Oreg. (36a)
- Hawkins & Armstrong, Seattle, Wash. (46a)
- Hawkins, H. H., & Sons Co., Newton, Mass. (20b)
- Hawkins, Neal, Gastonia, N. C. (32a)
- Haworth, Albert, Tampa, Fla. (9c)
- Hay, A. L., & Son, Port Arthur, Texas (42h)
- Hayes, L. W., Inc., Kansas City, Mo. (15b) (24b)
- Hayne Engr. Co., Charleston, W. Va. (47a)
- Haynes, C. W., Co., Chicago, Ill. (12a)
- Haynes, W. G., West Monroe, La. (17g)
- Haynsworth, T. B., Jr., Florence, S. C. (32a)
- Hays & Nicoulin, Louisville, Ky. (16b)
- Hazard, R. E., Contr. Co., San Diego, Calif. (4c)
- Hazelwood, Geo. F., Co., Inc., The, Cumberland, Md. (19b) (37c)
- Hazen & Clark, Spokane, Wash. (46c)
- Healy, J. L., Constr. Co., Sioux Falls, S. Dak. (40a)
- Healy, John E., & Sons, Inc., Wilmington, Del. (7a)
- Healy, S. A., Company, White Plains, N. Y. (L)
- Heard, Jesse F., & Son, West Monroe, La. (17g)
- Hearin-Smith, Inc., Baton Rouge, La. (17d)
- Heckendorf, F. A., Littleton, Colo. (5b)
- Hector Constr. Co., Inc., Hector, Minn. (22a) (40a)
- Hedahl-Martin Co., The, Redwood City, Calif. (4a)
- Hedden, Raymon R., Nanticoke, Pa. (37a)
- Hedgcock, Wendell T., Denver, Colo. (5a)
- Hedin Constr. Co., Washington, D. C. (8a)
- Heffernan, J., Jr., Houston, Texas (42j)
- Hegeman-Harris Co., Inc., New York City (31c)
- Heidelberg, C. R., Jacksonville, Texas (42f)
- Heineman, J. R., & Sons, Inc., Saginaw, Mich. (21b)
- Heintz, R. A., Constr. Co., Portland, Oreg. (36a)
- Helbig, A. S., Co., The, Akron, Ohio (34a)
- Heldenfels Bros., Corpus Christi, Texas (42f) (42j)
- Hellmich, Walter F., Inc., St. Louis, Mo. (24c)
- Helmer, Stanley S., Grand Rapids, Minn. (22a)
- Helwig Constr. Co., Sebastopol, Calif. (4b)
- Helwig, Fred R., Millersburg, Pa. (37a)
- Henderson, David, & Son, Cleveland, Ohio (34c)
- Henderson, H. R., Co., Marshall, Texas (42f)
- Hendrich, W. F., Co., Inc., The, Buffalo, N. Y. (31a)
- Hendrick & Adams, Waco, Texas (42L)
- Hendrick, C. L., & Son, Waco, Texas (42L)
- Hendricks, F. B., Shelby, N. C. (32a)
- Hendricks, Harold, Contr. Co., McAllen, Texas (42o)
- Hendrickson Bros., Inc., Valley Stream, N. Y. (31d)
- Hendry Bldg. Co., St. Petersburg, Fla. (9c)
- Henery, Harry, Inc., Ottawa, Kans. (15b)
- Henger Constr. Co., Dallas, Texas (42a)
- Henkel Constr. Co., Mason City, Iowa (14b)
- Hennessy, A. P., & Sons, Inc., St. Petersburg, Fla. (9c)
- Henning-Payne Constr. Co., Abilene, Texas (42f)
- Henrikson Constr. Co., Seattle, Wash. (46b)
- Henry, Frank J., Wisconsin Rapids, Wis. (48b)
- Henry & Hall, Dubach, La. (17e)
- Henryetta Constr. Co., Henryetta, Okla. (35b)
- Henshaw Bros., Portland, Oreg. (36a)
- Hensler Constr. Corp., Sun Valley, Calif. (4d)
- Henson, W. J., Prescott, Ariz. (2a)
- Heple, Earl W., San Jose, Calif. (4b)
- Herbison Constr. Co., Brainerd, Minn. (22a)
- Herlihy Mid-Continent Company, Chicago, Ill. & Comstock, Mich. (L) (12a) (21b)
- Herman-Sipe & Co., Inc., Conover, N. C. (32a)
- Hermann Co., Los Angeles, Calif. (4d)
- Hermans Constr. Co., Ft. Dodge, Iowa (14b)
- Herr, Albert, Constr. Co., Webster, S. Dak. (40a)
- Herrick, G. G., Des Moines, Iowa (14a)
- Herrick, R. P., Co., Butte, Mont. (25a)
- Herrin, C. A., Durham, N. C. (32a)
- Herring, Geo. B., & Son, Mansfield, Ohio (34d)
- Herrman Constr. Co., Atlanta, Ga. (10a)
- Hersom, C. L., Laurens, Iowa (14b)
- Hertel & Deyo Co., Grand Rapids, Mich. (21c)
- Hertfelder, Wm., Inc., St. Louis, Mo. (24c)
- Herz, Geo., & Co., San Bernardino, Calif. (4d)
- Herz Paving Co., San Bernardino, Calif. (4d)
- Herzog, Ralph S., Inc., Philadelphia, Pa. (37d)
- Heslep, John C., Co., Columbia, S. C. (32a)
- Hess, Marion J., Malad, Idaho (11a)
- Hesse, Chas. J., Inc., Belford, N. J. (29a)
- Hesser, L. J., Greeley, Colo. (49a)
- Heuser & Garnett, Phoenix, Ariz. (2a)
- Hew Constr. Co., Boston, Mass. (20b)
- Hewitt, F. R., & Co., Parkwater, Wash. (46c)
- Hewitt, R. N., Charleston, W. Va. (47a)
- Hickey & Co., Dallas, Texas (42a)
- Hickory Constr. Co., Inc., Hickory, N. C. (32a)
- Hicks Constr. Co., Waco, Texas (42L)
- Hicks, Fred E., Constr. Co., Knoxville, Tenn. (41b)
- Hicks, R. C., Charlotte, N. C. (32a)
- Higginbotham, A. G., Co., Charleston, W. Va. (47a)
- Higgins, R. T., Co., Hot Springs, Ark. (3a)
- Higgins, V. B., Co., Greensboro, N. C. (32a)
- Higgison, Peyton, Mobile, Ala. (1a)
- Highland Co., Louisville, Ky. (16b)
- Highum & Wondra, Inc., Blooming Prairie, Minn. (22a)
- Higley, Albert M., Co., The, Cleveland, Ohio (34c)
- Hilde Constr. Co., Inc., Great Falls, Mont. (25a)
- Hill, Carl V., Greeley, Colo. (5b)
- Hill & Combs, San Antonio, Texas (42e)
- Hill, D. B., Little Rock, Ark. (3a) (23a)
- Hill, E. B., Sherman, Texas (42f)
- Hill, John, Constr. Co., St. Louis, Mo. (24c)
- Hill, W. D., Constr. Co., Houston, Texas (42d)
- Hillier, Don, & Sons, Inc., Pahokee, Fla. (9c)
- Hillyer & Lovan, Jacksonville, Fla. (9a)
- Hilton & Carr, Ogden, Utah (43a)
- Hinchberger Constr. Co., Corpus Christi, Texas (42i)
- Hines, E. H., Constr. Co., Greenwood, S. C. (32a)

- Hinkle Contr. Co., Paris, Ky. (16a)
 Hinman, A. E., Corpus Christi, Texas (42f)
 Hinman Bros. Constr. Co., The, Denver, Colo. (5b)
 Hipskind Drainage Co., Fort Wayne, Ind. (13a)
 Hites, L. V., Co., Kansas City, Mo. (15b)
 Hitz Constr. Co., Billings, Mont. (25b)
 Hixson & Lehenbauer, Topeka, Kans. (15b)
 Hoagland-Findlay Engr. Co., Long Beach, Calif. & Seattle, Wash. (4d) (46a)
 Hoak Constr. Co., West Des Moines, Iowa (14a)
 Hoar, F. R., & Son, Inc., Birmingham, Ala. (1a)
 Hoback, L. E., Everett, Wash. (46a)
 Hobbs, E. L., Constr. Co., Denver, Colo. (5a)
 Hobe Engr. Co., Sioux City, Iowa (14a)
 Hobeck, J. W., Holland, Mich. (21c)
 Hodges & Co., Inc., Anniston, Ala. (1a)
 Hodges Constr. Co., Seattle, Wash. (46b)
 Hodgkiss & Douma, Petoskey, Mich. (21c)
 Hodgman, W., & Sons, Fairmont, Minn. (22a)
 Hoeffken Bros. Constr. Co., Belleville, Ill. (12d)
 Hoeffken, M., Co. & Hoeffken Bros., Inc., Belleville, Ill. (12c)
 Hoeppner-Bartlett Co., Eau Claire, Wis. (48b)
 Hoffman, F., Co., Wilkesburg, Pa. (37b)
 Hoffman, L. H., Portland, Ore. (36b)
 Hoffman, Lee, Portland, Ore. (36a) (36b)
 Hoffman, Morris, Contr. Co., Kansas City, Mo. (24a)
 Hoffman, Ned B., Fort Worth, Texas (42f)
 Hogan, Ben M., & Co., Little Rock, Ark. (3a) (23a)
 Hogan Co., The, Riverside, Calif. (4d)
 Hogan & Horrman, St. Petersburg, Fla. (9c)
 Hokanson & Bloom, Rockford, Ill. (12b)
 Hoke Constr. Co., Stillwater, Okla. (35a)
 Holderman, V. N., & Sons, Inc., Columbus, Ohio (34d)
 Holdren Constr. Co., Mt. Vernon, Ill. (12c)
 Holland, John G., Constr. Co., Houston, Texas (42j)
 Holland, W. P., Houston, Texas (42j)
 Holley, J. F., Birmingham, Ala. (1a)
 Holm Constr. Co., Glendive, Mont. (25b)
 Holm-Page Co., The, Rockford, Ill. (12b)
 Holmes Constr. Co., Heyburn, Idaho (11a)
 Holmes Constr. Co., The, Wooster, Ohio (37c)
 Holmes & English, West Englewood, N. J. (20a)
 Holmes & Murphy, Orchard Park, N. Y. (31d)
 Holmquist, F. E., Rockford, Ill. (12b)
 Holt, Heenan, Graham, N. C. (32a)
 Holt, W. F., & Son, Nashville, Tenn. (41d)
 Holtz, B. W., Houston, Texas (42d)
 Holtze, H. S., Constr. Co., Sioux City, Iowa (14b)
 Holzworth Constr. Co., Miles City, Mont. (25a) (40a)
 Homann, A. G., Lacey, Wash. (46d)
 Home Bldrs. Co., St. Cloud, Minn. (22a)
 Homes of Tomorrow, Inc., Torrance, Calif. (4d)
 Homewood, Roy M., Chapel Hill, N. C. (32a)
 Honegger Bros. Constr. Co., Kingfisher, Okla. (35b)
 Hongola & Elliott Constr. Co., Norwalk, Calif. (4d)
 Honnen, Ed. H., Denver, Colo. (5b)
 Hood Constr. Co., Ltd., Lynwood, Calif. (4d)
 Hooker Constr. Co., Waco, Texas (42L)
 Hooks, C. F., Birmingham, Ala. (1a)
 Hooper Constr. Co., Coral Gables, Fla. (23a)
 Hoops Constr. Co., Twin Falls, Idaho (11a)
 Hope Bldg. Co., Inc., Providence, R. I. (38a)
 Hopkins & McPherson, Laramie, Wyo. (49a)
 Hopkins, Richard, Co., Albany, N. Y. (31d)
 Hopper, Alfred J., Co., San Francisco, Calif. (4a)
 Horman Constr. Co., Salt Lake City, Utah (43a)
 Horn Bros., Inc., Boston, Mass. (20b)
 Horn, Henry L., Caldwell, Idaho (11a)
 Horner, A. S., Constr. Co., Denver, Colo. (5b)
 Horner & Switzer, Denver, Colo. (5b)
 Horrabin, Wm., Contr. Co., Iowa City, Iowa (14a)
 Horst, Henry W., Co., Philadelphia, Pa. (37d)
 Horster Constr. Co., Tulsa, Okla. (35a)
 Horstmeier, Wm., Co., San Francisco, Calif. (4a)
 Hortie, R. J., San Diego, Calif. (4c)
 Horton-Pollard, Bossier City, La. (17e)
 Hough-Cowgur & Co., St. Louis, Mo. (23a) (24b)
 Houghton Excavating Co., Beulah, Mich. (21c)
 House, Henry, Lake Charles, La. (17c)
 House, K. L., Constr. Co., Inc., Albuquerque, N. Mex. (30b)
 Howard Bros., Madisonville, Texas (42f)
 Howard Constr. Co., Sedalia, Mo. (24b)
 Howard Constr. Co., Inc., Greensboro, N. C. (32a)
 Howard Constr. Co., Inc., Houston, Texas (42d)
 Howe, T. D., Constr. Co., Inc., Houston, Texas (42d)
 Howell, Jas. R., & Co., Denver, Colo. (5a)
 Howes & Farrell, Inc., Oneida, N. Y. (31d)
 Howie Constr. Co., Jackson, Miss. (23b)
 Howland, Fred, Inc., Miami, Fla. (9b)
 Howton, W. C., Contr. Co., Birmingham, Ala. (1a)
 Hoyt, Chas. H., Silverton, Ore. (36a)
 Hubbard Constr. Co., Orlando, Fla. (9c)
 Hubbard Constr. Co., of S. C., Inc., Marion, S. C. (32a)
 Hubbard, Roy, Constr. Co., Junction City, Kans. (15a)
 Hubbard & Son, Turlock, Calif. (4a)
 Hubbard, T. B., Constr. Co., Inc., Houston, Texas (42d)
 Hubbell, J. T., Constr. Co., Houston, Texas (42d)
 Hubbell, O. W., New Hartford, N. Y. (31d)
 Hubbell, S. W., Bldg. Co., The, Bridgeport, Conn. (6a)
 Huber, Hunt & Nichols, Inc., Indianapolis, Ind. (13b)
 Hubner, C. L., Co., Denver, Colo. (5b)
 Huckaba & Sons Constr. Co., Charleston, Ill. (12c)
 Hucke, Clarence P., Co., Kansas City, Mo. (24a)
 Hudgins, M. S., Salem, Va. (45a)
 Hudson Constr. Co., Los Angeles, Calif. (4d)
 Hudson River Constr. Co., Albany, N. Y. (31d)
 Huenergard Elec. Co., Portland, Ore. (36a)
 Huettig, Schromm & Bennett, Palo Alto, Calif. (4b)
 Hufeisen, C. Wm., Anchorage, Alaska (50a)
 Hugh Constr. Co., Inc., Chicago, Ill. (12a)
 Hughes, Chas. T., Constr. Co., Oklahoma City, Okla. (35a)
 Hughes-Foulkrod Co., Philadelphia, Pa. (37d)
 Hughes, H. D., Roswell, N. Mex. (30b)
 Hughes, J. B., Brownsville, Texas (42c)
 Hull, Clarence A., Dryden, Mich. (21c)
 Hulme, Chas., Great Bend, Kans. (15b)
 Hulse, Cecil K., Woodland, Calif. (4b)
 Humble & Humble, Monroe, La. (17g)
 Humel Constr., Inc., Cleveland, Ohio (34c)
 Hunkin-Conkey Constr. Co., The, Cleveland, Ohio (34c)
 Hunnicutt, A. R., Co., New Castle, Ind. (13b)
 Hunsicker, L. W., Co., Allentown, Pa. (37a)
 Hunt Constr. Co., Inc., West Durham, N. C. (32a)
 Hunt, David M., Philadelphia, Pa. (37d)
 Hunter Constr. Co., Ada, Okla. (35b)
 Hunter, E. H., Jacksonville, Fla. (9a)
 Hunter, Ralph H., Constr. Co., Hays, Kans. (15b)
 Hunting, J. L., Co., The, Cleveland, Ohio (34c)
 Huntington Bros., San Anselmo, Calif. (4b)
 Hunzinger Constr. Co., Milwaukee, Wis. (48a)
 Hurley, Gene, Constr. Co., St. Paul, Minn. (22a)
 Hutcheson Constr. Co., Inc., Denver, Colo. (5b)
 Hutter Constr. Co., Fond du Lac, Wis. (48b)
 Hyde Constr. Co., Jackson, Miss. (23a)
 Hyman, Geo., Constr. Co., The, Washington, D. C. (8a)
 Hymans, John, & Sons, Hull, Iowa (14a)
 Hyndman, Earle L., Boston, Mass. (20b)
 Iber, C., & Sons, Peoria, Ill. (12a)
 Idaho Constrs., Inc., Boise, Idaho (11a)
 Ideson Co., Inc., The, Kirkwood, Mo. (24c)
 Illinois Steel Bridge Co., Jacksonville, Ill. (12c)
 Immel Co., Fond du Lac, Wis. (48b)
 Immel, Lee J., San Pablo, Calif. (4b)
 Ind, Chas., Co., Rockford, Ill. (12c)
 Indenco, Oakland, Calif. (4a)
 Independent Constr. Co., Overland Park, Kans. (15b)
 Independent Constr. Co., Oakland, Calif. (4b)
 Indiana Constr. Co., Inc., Fort Wayne, Ind. (13b)
 Industrial Bldrs., Inc., Anderson, S. C. (32a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Industrial Constr. Co., Detroit, Mich. (21a)
Industrial Constr. Co., Oklahoma City, Okla. (35a)
Industrial Constr. Co., The, Hartford, Conn. (6a)
Industrial Constr., Denver, Colo. (5a)
Industrial Constr. Co., Minneapolis, Minn. (22a)
Industrial Engr. Co., New York City (31c)
Industrial Engrs. & Contrs., Inc., Portland Oreg. & Tacoma, Wash. (4b) (36b) (46d)
Industrial Engrs., Inc., Los Angeles, Calif. (4d)
Inge-Hayman Constr. Co., Inc., Dallas, Texas (42a)
Ingram, W. K., Constr. Co., West Memphis, Ark. (23a)
Inland Asphalt Co., Spokane, Wash. (46c)
Inland Constr. Co., Wichita, Kans.; Omaha, Nebr.; Cheyenne, Wyo. & Rapid City, S. Dak. (5b) (15b) (25a) (26b) (40a) (49a)
Inland Constr., Inc., Rosedale, Miss. (23a)
Inter-City Sand & Gravel Co., Inc., Eugene, Oreg. (36a)
Intercounty Constr. Corp., Hyattsville, Md. (19b)
Intermountain Bldrs., Inc., Caldwell, Idaho (11a)
Intermountain Plumbing Co., Boise, Idaho (11a)
Intermountain Theatre Supply Co., Salt Lake City, Utah (43a)
International Chimney Corp., Buffalo, N. Y. (31a)
Inter State Constr. Co., Kansas City, Mo. (24a)
Interstate Constr. Co., Charlotte, N. C. (32a)
Inwood Constr. Co., Dallas, Texas (42a)
Iowa Bridge Co., Des Moines, Iowa (14a)
Irish, E. A., Los Angeles, Calif. (4d)
Irscher, Max, & Sons, Inc., Fort Wayne, Ind. (13b)
Irons & Reynolds, Inc., Washington, D. C. (8a)
Irwin, John, Contr. Co., Inc., The, Lockport, N. Y. (31d)
Irwin & Leighton, Philadelphia, Pa. (37d)
Irwin, Robt. L., Memphis, Tenn. (41c)
Isackson, Geo., Co., Portland, Oreg. (36b)
Isbell Constr. Co., Inc., Reno, Nev. (27a) (30a)
Istock, Nick, Aliquippa, Pa. (37c)
Ivey, Henry A., Inc., Atlanta, Ga. (10a)
Izzi, Michael, Temple City, Calif. (4d)
- J
- J. & B. Constr. Co., Los Angeles, Calif. (4d)
J. B. C. Constr. Co., Inc., Lancaster, N. Y. (31d)
J & J Constr. Co., Oklahoma City, Okla. (35a)
J. & K. Constr. Co., Denver, Colo. (5a)
J-P Constr. Co., The, Chicago Heights, Ill. (12c) (13a)
Jacks & Irvine, San Francisco, Calif. (4a)
Jackson, A. L., Co., Chicago, Ill. (12a)
Jackson & Brittain, Savannah, Ga. (10a)
Jackson Constr. Co., Emmetsburg, Iowa (14b)
Jackson, Geo. R., Co., The, Akron, Ohio (34a)
Jackson, John K., Ironwood, Mich. (21c)
Jacobs, M. C., Constr. Co., Denver, Colo. (5b)
Jacobs, M. J., & Sons, Bird Island, Minn. (22a)
Jacobs, S. S., & Co., Jacksonville, Fla. (9a)
Jacobsen & Brittan, Inc., Portland, Oreg. (36a)
Jacobsen, Carl J., Sharpsburg, Pa. (37c)
Jacobsen Constr. Co., Salt Lake City, Utah (43a)
Jacobson, Alfred L., Inc., Malden, Mass. (20b)
Jacobson, Bert A., Co., Pittsburgh, Pa. (37c)
Jacobson, Con, Co., Marshalltown, Iowa (14b)
Jacobson, L. A., Pauls Valley, Okla. (15b)
Jacobucci, R. R., Inc., West Quincy, Mass. (20b)
Jaggard, R. B., Engr. Co., Westmont, N. J. (29a)
Jahncke Service, Inc., New Orleans, La. (23a)
James, Guy H., Constr., Oklahoma City, Okla. (35b)
James, T. L., & Co., Inc., Ruston, La. (L) (17c) (23a)
Jameson, P. W., Constr. Co., Memphis, Tenn. (41c)
Jamison, E. J., Los Angeles, Calif. (4d)
Jansen & Schaefer, Pekin, Ill. (12c)
Jantelle, P., Inc., Newark, N. J. (L)
Jarbet Co., The, San Antonio, Texas (42f)
Jarl, Vernie, Gresham, Oreg. (36a)
Jarrell, L. L., Whistler, Ala. (1a)
Jarvis-Courtney Corp., Clarksburg, W. Va. (47a)
Jarvis, Paul, Inc., Seattle, Wash. (46a)
Jayhawk Constr. Co., Inc., Topeka, Kans. (15a)
Jefferson Asphalt Co., Inc., Mt. Vernon, Ill. (12c)
Jeffress-Dyer, Inc., Washington, D. C. (8a)
Jeffries Constr. Co., Mankato, Minn. (22a)
Jenkins Bros. Constr. Co., Raleigh, N. C. (32a)
Jenkins, J. H., Baton Rouge, La. (17e)
Jenkins, M. A., & R. E. Hertel, Sacramento, Calif. (4b)
Jenks, Paul I., Grass Valley, Calif. (4a)
Jennings, J. D., Co., Louisville, Ky. (16b)
Jensen, A., New Orleans, La. (17a)
Jensen Bros., Salt Lake City, Utah (43a)
Jensen, Chris, Co., St. Paul, Minn. (22a)
Jensen Constr. Co., Des Moines, Iowa (14a)
Jensen Constr. Co., Minneapolis, Minn. (22a)
Jensen & Krage, Sioux City, Iowa (14a)
Jensen & Pitts, San Rafael, Calif. (4b)
Jensen, R. M., Constr. Co., Salt Lake City, Utah (43a)
Jensen, Viggo M., & Co., Albert Lea, Minn. (22a)
Jenson, L. W., & A. E. Mangs, Palo Alto, Calif. (4b)
Jenson & Ridge Constr. Co., Wichita, Kans. (15a)
Jentoft-Johnson Co., Seattle, Wash. (46b)
Jesse, Frank, Amarillo, Texas (42g)
Jesse, Walter A., Akron, Ohio (34a)
Jimison, C. H., Huntington, W. Va. (47a)
Jobst, V., & Sons, Peoria, Ill. (L)
Johns Bros. Constr. Co., Inc., Binghamton, N. Y. (31d)
Johns Engr. Co., Denver, Colo. (5a)
Johnson, A. C., & Sons, Eureka, Calif. (4b)
Johnson, A. W., Co., Inc., Seattle, Wash. (46a)
Johnson, Al, Helena, Mont. (25b)
Johnson, Al Construction Co., Minneapolis, Minn. (N) (22a)
Johnson Bros. Constr. Co., Salina, Kans. (15a)
Johnson, C. Emil, Red Oak, Iowa (14b)
Johnson, C. O., Constr. Co., Minneapolis, Minn. (22a)
Johnson, Chas. B., & Sons, Chicago, Ill. (12a)
Johnson, Chas. J., Portland, Oreg. (36b)
Johnson Constr. Co., Tucson, Ariz. (2a)
Johnson Constr. Co., Winona, Minn. (22a)
Johnson, Drake & Piper, Inc., Minneapolis, Minn.; New York, N. Y.; Oakland, Calif. & Terre Haute, Ind. (4a) (22a) (31d) (13b)
Johnson, Ed, Waco, Texas (42L)
Johnson Engr. & Constr. Co., Storm Lake, Iowa (14b)
Johnson, G. C., Co., Welch, W. Va. (47a)
Johnson & Geddes, Fayetteville, N. C. (32a)
Johnson, Geo. D., Co., Peoria, Ill. (12a)
Johnson-Gillanders Co., Grand Forks, N. Dak. (22a)
Johnson-Greene Co., Ann Arbor, Mich. (21c)
Johnson, H. W., South Sioux City, Nebr. (26b) (40a)
Johnson-Hearn Constr. Co., Jackson, Tenn. (41c)
Johnson & Henrickson, Racine, Wis. (48b)
Johnson, J. Walter, Los Angeles, Calif. (4d)
Johnson, John A., & Sons, Inc., Washington, D. C. & Atlanta, Ga. (8a) (10a)
Johnson & Johnson Constr. Co., Rome, Ga. (10a)
Johnson, Jos. E., & Son, St. Paul, Minn. (22a)
Johnson, Le Grand, Logan, Utah (43a)
Johnson, M. L., Cedar Rapids, Iowa (14a)
Johnson & Nelson, San Anselmo, Calif. (4b)
Johnson, Richard, Co., Hartford, Conn. (6a)
Johnson, S. E., Co., The, Maumee, Ohio (34d)
Johnson, W. L., Construction Co., Hicksville, & Columbus, Ohio (N) (34d)
Johnson, Walter S., Bldg. Co., Inc., Niagara Falls, N. Y. (31a)
Johnson Western Co., San Pedro, Calif. (4d)
Johnson & Willard, Knoxville, Tenn. (41b) (41c)
Johnson-Winston-Kiewit, Muskogee, Okla. (35a)
Johnston, Maynard, & Co., Atlanta, Ga. (10a)
Johnston, Wagner, Constr. Co., Sioux City, Iowa (14a)
Joliet Bridge & Constr. Co., Joliet, Ill. (12c)
Jones, A. Berney, Montgomery, Ala. (1a)
Jones Bros. & Co., Wilson, N. C. (32a)
Jones & Buchanan, Alexandria, La. (23a)
Jones Constr. Co., Denver, Colo. (5b)
Jones, D. F., Constr. Co., Inc., Little Rock, Ark. (3a)
Jones, Dolph, Tacoma, Wash. (46d)
Jones, E. B. & A. A., Denver, Colo. (5a)
Jones-Gillis Contr. Co., Clarksdale, Miss. (23a)
Jones & Hezlep, Denver, Colo. (5a)

Jones, J. A., Constr. Co., Inc., Charlotte, N. C.; Atlanta, Ga. & Shreveport, La. (10a) (32a) (17b)
 Jones, J. Lawrence, Dallas, Texas (42a)
 Jones, J. O., Constr. Co., Houston, Texas (42d)
 Jones, Jiroud, & Co., Atlanta, Ga. (10a)
 Jones-Kissner Constr. Co., St. Louis, Mo. (24c)
 Jones, L. S., & Sons, Inc., Racine, Wis. (48b)
 Jones, Lew, Constr. Co., San Jose, Calif. (4b)
 Jones, O. C., & Sons, Berkeley, Calif. (4b)
 Jones, R. J., & Sons, Alexandria, La. (17f)
 Jones, S. K., Constr. Co., Memphis, Tenn. (23a)
 Jones, W. B., Palo Cedro, Calif. (4b)
 Jones, W. Boyd, Co., Omaha, Nebr. (26a)
 Jones & Williams Constr. Co., Waco, Texas (42L)
 Jordan Constr. Co., Jackson, Miss. (23b)
 Jordan, R. F., Constr. Co., Angleton, Texas (42d)
 Jorgensen, O., & Sons, Clinton, Iowa (14b)
 Jorstad, John, Sioux City, Iowa (14b)
 Joseph, S. L., Santa Rosa, Calif. (4b)
 Joslin, C. W., & Son, Spokane, Wash. (46c)
 Joyce Bros. Constr. Co., Springfield, Ill. (12c)
 Joyce, Leon, Rochester, Minn. (22a)
 Joyce & Wooten Constr. Co., Little Rock, Ark. (3a)
 Juerling, Vincent H., & Son, Richmond, Ind. (13b)
 Julian, Jas., Constr. Co., Wilmington, Del. (7a)
 Julian, John, Constr. Co., Wilmington, Del. (7a)
 Juneau, L. P., Alexandria, La. (17f)
 Junglaus, Wm. P., Co., Inc., Indianapolis, Ind. (13b)
 Jurgensen, John R., Newtown, Ohio (34b)
 Jussel, Joe A., Bellingham, Wash. (46a)
 Justice-Dunn Co., Oakland, Calif. (4b)
 Jutton-Kelly Co., Dearborn, Mich. (21a) (21c)

K

Kahl & Mahon, Liberty, Ind. (13a)
 Kahn, M. B., Constr. Co., Columbia, S. C. (32a)
 Kaiser-Ducett Co., Chicago, Ill. (12a)
 Kaiser, E. A., Co., Inc., Beverly Hills, Calif. (4d)
 Kaiser Engrs., Div. of Kaiser Inds., Inc., Oakland, Calif. (4b) (4d)
 Kane, Geo. W., Greensboro, Durham, & Roxboro, N. C. (32a)
 Kansas City Bridge Company, Kansas City, Mo. & Plaquemine, La. (N) (24b)
 Kaplan Constr. Co., Lafayette, La. (17f)
 Karafa, Jos. C., Great Falls, Mont. (25b)
 Kaser Constr. Co., West Des Moines, Iowa (14a)
 Kathman, Herman, Seattle, Wash. (46a)
 Kaucher, Walter, Los Angeles, Calif. (4d)
 Kaufman Constr. Co., Inc., Philadelphia, Pa. (29a)
 Kaufman, J. E., Kearney, Nebr. (26a)
 Kaufmann, W. J. C., Co., Detroit, Mich. (21a)
 Kaw Paving Co., Inc., Topeka, Kans. (15b)

Kaylor, John R., Gastonia, N. C. (32a)
 Kealy Constr. Co., Hastings, Nebr. (26a)
 Keaton, W. W., Jr., Little Rock, Ark. (3a)
 Kebbe, Ray, Warren, Mich. (21c)
 Keck, G. E., Fairview, Okla. (35b)
 Keeble, Edw., San Jose, Calif. (4b)
 Keefer, E. H., & Son, Philadelphia, Pa. (37d)
 Keeley Bros. Constr. Co., East St. Louis, Ill. (12c) (12d)
 Keeley, John J., East St. Louis, Ill. (12d)
 Keeley, Jos. P., Contr. Co., East St. Louis, Ill. (12c)
 Kehe Constr. Co., Waverly, Iowa (14a)
 Keim Constr. Co., Tecumseh, Nebr. (26b)
 Kelleher Corp., Turners Falls, Mass. (31d)
 Keller Constr. Co., Baton Rouge, La. (17d)
 Keller Constr. Co., New Orleans, La. (17a)
 Keller Constr. Corp., New Orleans, La. (17c)
 Keller, H. M., Co., Burbank, Calif. (4d)
 Kelley Bros., Sacramento, Calif. (4b)
 Kelley & Meyer Co., The, Youngstown, Ohio (37c)
 Kelley & Peletz, San Francisco, Calif. (4a)
 Kelley-Wood Co., The, New Haven, Conn. (6a)
 Kelly, C. A. & R. J., Kansas City, Mo. (24a)
 Kelly Constr. Co., San Antonio, Texas (42f)
 Kelly-Generes Constr. Co., New Orleans, La. (17a)
 Kelly, J. A., Co., Nashville, Tenn. (41d)
 Kelly, John F., Terre Haute, Ind. (13a)
 Kelly, Jos. F., Co., The, West Haven, Conn. (6a)
 Kelly, Ray R., & Co., Tacoma, Wash. (46d)
 Kelton, John C., & Son, Phoenix, Ariz. (2a)
 Kemmer, A. E., Lafayette, Ind. (13b)
 Kemp Bros., Los Angeles, Calif. (4d)
 Kemper, M. F., Constr. Co., Los Angeles, Calif. (4d)
 Kendall Constr. Co., Tacoma, Wash. (46d)
 Kennedy, John, & Co., New York City (31c)
 Kenney, Frank M., Denver, Colo. (5a) (5b)
 Kenney, Jas. B., Inc., Denver, Colo. (5a) (5b)
 Kentucky-Virginia Stone Co., Middlesboro, Ky. (16a)
 Kenworthy, C. V., Stockton, Calif. (4b)
 Kenyon, E. C., Jacksonville, Fla. (9a)
 Kenyon, Worth D., Constr. Co., Inc., Raleigh, N. C. (32a)
 Kepp, W. A., & Sons Co., Orange City, Iowa (14b)
 Kern & Kibbe, Portland, Oreg. (36a)
 Kerns, G. E., Long Beach, Calif. (4d)
 Kerr Engr. & Constr. Co., Kilgore, Texas (42n)
 Kershaw, C. G., Contr. Co., Birmingham, Ala. (1a)
 Ketell Constr. Co., Portland, Oreg. (36a)
 Ketner Bros., Tacoma, Wash. (46d)
 Kettelhut, K. H., Lafayette, Ind. (13b)
 Kettle Constr. Co., Houston, Texas (42d)
 Key Contrs., Inc., Santa Fe Springs, Calif. (4d)
 Keys, Clyde J., St. Petersburg, Fla. (9c)
 Keyser, Leon, Co., Manchester, N. H. (28a)
 Kiddie, Walter, Constrs., Inc., New York City; Houston, Texas (31c) (37d) (42d)
 Kiely Constr. Co., Butte, Mont. (25a)

Kier, W. E., Constr. Co., San Diego, & Los Angeles, Calif. (4c) (4d)
 Kies, Geo., Austin, Texas (42f)
 Kiewit, Peter, Sons' Co., Omaha, Nebr.; Sheridan, Wyo.; Arcadia, & Delano, Calif.; Denver, Colo.; Rapid City, S. Dak.; Albuquerque, N. Mex.; Wichita, Kans.; Seattle, & Longview, Wash.; Jefferson Barracks, Mo. (4b) (4d) (5a) (5b) (14a) (15b) (25a) (26a) (26b) (30b) (36a) (40a) (49a) (50a) (24c)
 Kiker & Yount, Inc., Reidsville, N. C. (32a)
 Killian, M. B., & Co., San Antonio, Texas (42f)
 Killman, Kile, Constr. Co., Inc., Grenada, Miss. (23a)
 Kimbrough Constr. Co., Mobile, Ala. (1a)
 Kinder, S. G., & Sons, Wilbur, Wash. (46c)
 King-Hoover Constr. Co., Phoenix, Ariz. (2a)
 King-Hunter, Inc., Greensboro, N. C. (32a)
 King, J. M., Baton Rouge, La. (17d)
 King, M. J., Inc., San Francisco, Calif. (4a)
 King-North Constr. Co., Jackson, Miss. (23b)
 King, Robt. H., Danville, Ind. (13a)
 Kingery Constr. Co., Lincoln, Nebr. (26a)
 Kingsolver, Arthur E., Bristol, Va. (41e)
 Kinnare Corp., The, Chicago, Ill. (12a)
 Kirchhof, F. J., Constr. Co., Denver, Colo. (5a)
 Kirk, R. V., Gibbon, Nebr. (26b)
 Kirk, S. L., Santa Fe, N. Mex. (30b)
 Kirkpatrick Constr. Co., Milwaukie, Oreg. (36a)
 Kirkpatrick, R. F., & Sons, Burlington, N. C. (32a)
 Kissick & Son Constr. Co., Hickman Mills, Mo. (24b)
 Kitchens, Rex D., Constr. Co., Austin, Texas (42f) (42k)
 Kitchingham, J. D., & Son, Columbia, La. (17f)
 Kitzmann Constr. Co., Keokuk, Iowa (14a)
 Kiziah, J. H., Hickory, N. C. (32a)
 Klarquist, John A., Los Angeles, Calif. (4d)
 Klaver & Wallace, Kingman, Kans. (15b)
 Klefman, H. E., Co., The, Cleveland, Ohio (34c)
 Kleinpeter, T. W., & Co., Baton Rouge, La. (17e)
 Kleinsmid Constr. Co., Bakersfield, Calif. (4d)
 Kline, Boyd H., Bloomsburg, Pa. (37a)
 Kline & Schmidt, Monaca, Pa. (37c)
 Klinger, W. A., Co., Sioux City, Iowa (14b)
 Kloepfer & Gramkow, Boise, Idaho (11a)
 Kloster Co., St. Louis, Mo. (24c)
 Klug & Smith Co., Milwaukee, Wis. (48a)
 Knapp & East, Lake Charles, La. (17c)
 Knapp, Walter, Monroe, Mich. (21c)
 Knight, L. H., Co., Little Rock, Ark. (3a)
 Knisely-Moore Co., Douglas, Wyo. (49a)
 Knoop, J. K., Constr. Co., Kansas City, Mo. (24a)
 Knowles, John B., Wenatchee, Wash. (46a)
 Knudson, Wm., & Sons, Des Moines, Iowa (14b)
 Knupp Constr. Co., Inc., Great Bend, Kans. (42m)
 Knuth, E. C., & Co., Milwaukee, Wis. (48a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Knutson Constr. Co., Minneapolis, Minn. (22a)
 Knutson Constr. Co., Houston, Texas (42d)
 Knutson-Gould Constr. Co., Kansas City, Mo. (24b)
 Koehler, A. S., Houston, Texas (42j)
 Koller Constr. Co., Oklahoma City, Okla. (42j)
 Koller, Stanley H., Crockett, Calif. (4b) (4d)
 Kolob Constr. Co., Phoenix, Ariz. (2a)
 Kohn Constr. Co., Trenton, N. J. (29a)
 Koenen, J. F., Constr. Co., Lewiston, Idaho (11a) (46c)
 Koppers Co., Inc., Metal Prods. Div., Baltimore, Md. (19a)
 Korshoj Constr. Co., Blair, Nebr. (26a)
 Korte Constr. Co., The, Cincinnati, Ohio (34b)
 Koss Construction Company, Des Moines, Iowa (N) (14a) (15b) (24b)
 Krael Constr. Co., Chicago, Ill. (12a)
 Kramer Constr. Co., Baltimore, Md. (19a)
 Kramme, C. J., Fort Dodge, Iowa (14b)
 Kramme, E. A., Co., Des Moines, Iowa (14a)
 Kranz, M., Engr. & Constr. Co., New York, N. Y. (31d)
 Krapf, Frederic G., Wilmington, Del. (7a)
 Kraus-Anderson, Inc., Minneapolis, Minn. (22a)
 Kraus-Anderson of St. Paul Co., St. Paul, Minn. (22a)
 Kraus, Samuel, Co., St. Louis, Mo. (24b) (24c)
 Krehay Constr. Co., Indianapolis, Ind. (13b)
 Krehbiel-Stalker Constr. Co., Columbia, Mo. (24b)
 Kretz, John H., Washington, Ind. (13b)
 Krill, Leonard H., Co., The, Cleveland, Ohio (34c)
 Kroeger, Harry W., Erection Co., St. Louis, Mo. (24c)
 Kroening Engr. Corp., Milwaukee, Wis. (48a)
 Kroetz, Wilbur L., Inc., Ft. Lauderdale, Fla. (9b)
 Krumdieck, Leo, Chicago, Ill. (12a)
 Krummel, Paul, Shrewsbury, Mo. (24c)
 Kruzick, Geo., Constr. Co., Winamac, Ind. (13a)
 Kucharo & Assoc., Inc., Des Moines, Iowa (14b)
 Kucharo Constr. Co., Des Moines, Iowa (14a) (14b)
 Kuckenberg Constr. Co., Portland, Oreg. (36a)
 Kuhn Constr. Co., Charleston, W. Va. (47a)
 Kuhne-Simmons Co., Inc., Detroit, Mich. (21a)
 Kuljian Corp., Philadelphia, Pa. (32a) (37d)
 Kuney, Johnson Co., Seattle, Wash. (46b)
 Kuney, Max J., Co., Spokane, Wash. (25a) (46c) (50a)
 Kutsche, A. W. & Co., Detroit, Mich. (21a)
 Kyburz Constr. Co., Aberdeen, S. Dak. (22a)
- Laburnum Constr. Corp., Richmond, Va. (45a)
 Lacy, L. H., Co., Dallas, Texas (42f)
 La Fond, Marcel, Little Falls, Minn. (22a)
 La Fountain, A. A., Inc., Hackensack, N. J. (L)
 Lake Bros. Constr. Co., Effingham, Ill. (12c)
 Lake, D. M., Constr. Co., Shelbyville, Ill. (12c)
 Lalonde, Albert, Co., Sidney, Mont. (25a)
 Lamb, L. W., Co., Holland, Mich. (21c)
 Lamb, Robt. E., & Son, Inc., Philadelphia, Pa. (37d)
 Lambert, M. T., Co., Atlanta, Ga. (10a)
 Lambeth Constr. Co., Greensboro, N. C. (32a)
 Lambie, C. S., & Co., Amarillo, Texas (42g)
 Lametti & Lametti, Inc., St. Paul, Minn. (22a)
 Lamkin Bros. Constr. Co., Alexandria, La. (17f)
 Lancaster & Love, Inc., Dallas, Texas (42j)
 Land Constr. Co., St. Joseph, Mo. (15b) (24b)
 Landau Bros. Bldg. Co., Pittsburgh, Pa. (37b)
 Landt, H. R., Oklahoma City, Okla. (35b)
 Lane Constr. Corp., The, Meriden, Conn. (31d)
 Lane, Richard M., Los Angeles, Calif. (4d)
 Lang Constr. Co., Inc., Hampton, Va. (45a)
 Langenderfer, Arthur S., & Co., Toledo, Ohio (34d)
 Langenfelder, C. J., & Son, Inc., Baltimore, Md. (19b)
 Langston Constr. Co., Inc., Orlando, Fla. (9c)
 LaPlant, Clyde O., Tunica, Miss. (23a)
 Larkin, Frank J., Constr. Co., Philadelphia, Pa. (37d)
 Larsen, A. A., Phoenix, Ariz. (2a)
 Larsen, B. O., San Diego, Calif. (4c)
 Larsen, C. A., San Diego, Calif. (4c)
 Larsen, C. C., & Sons Co., Council Bluffs, Iowa (14b)
 Larsen, Chris, Co., New Orleans, La. (17a)
 Larsen Constr. Co., Seattle, Wash. (46b)
 Larsen, Ira H., Co., San Francisco, Calif. (4a)
 Larsen & Larsen, Inc., San Francisco, Calif. (4a)
 Larson, Algot B., Inc., Chicago, Ill. (12a)
 Larson Constr. Co., Denver, Colo. (5b)
 Larson Constr. & Engr. Co., Ogden, Utah (43a)
 Larson-Danielson Constr. Co., Inc., La Porte, Ind. (13b)
 Larson, Elmer, Inc., DeKalb, Ill. (12c)
 Larson, John W., Bismarck, N. Dak. (22a)
 Larson & McCarthy, South Pasadena, Calif. (4d)
 Larson, Norman L., Austin, Texas (42f)
 Larson, O. F., & Son, Tacoma, Wash. (46d)
 LaSalle Constr. Co., Chicago, Ill. (12a)
 Lashlee-Rich Lumber Co., Inc., Humboldt, Tenn. (41c)
 Lastinger Home Bldrs., Inc., Tampa, Fla. (9c)
 Latex Constr. Co., Houston, Texas (42m)
 Latham Constr. Co., West Palm Beach, Fla. (9c)
 Lathrop, Geo. W., & Sons, Inc., Toledo, Ohio (34c)
- Latrobe Constr. Co., Latrobe, Pa. (37c)
 Latta, J. E., Constr. Co., St. Louis, Mo. (12d) (24b) (24c)
 Lauch, C. B., Constr. Co., Boise, Idaho (11a)
 Launder & Son, Inc., Toledo, Ohio (34d)
 Laur & Mack Contr. Co., Inc., Niagara Falls, N. Y. (31a)
 Laurence, Paul A., Co., Minneapolis, Minn. (22a)
 Lauritzen, H. F., Pittsburg, Calif. (4b)
 Lauter Constr. Co., Philadelphia, Pa. (37d)
 Lavender Bros., Earl, N. C. (32a)
 Law Bros. Co. & A. J. Leaf, Herkimer, N. Y. (31d)
 Lawless & Alford, Austin, & Corpus Christi, Texas (42i) (42k)
 Lawrence Constr. Co., Denver, Colo. (5b)
 Lawrence Constr. Co., Inc., Baltimore, Md. (19a)
 Laxton Constr. Co., Inc., Charlotte, N. C. (32a)
 Layman & Co., Tulsa, Okla. (35b)
 Layne-Texas Co., Ltd., The, Dallas, & Houston, Texas (42j)
 Leach Bros., Buffalo, Wyo. (49a)
 Lease & Leigland, Seattle, Wash. (25a) (46b)
 Leavell, C. H., & Co., El Paso, Texas (L)
 Lebeck & Co., Minneapolis, Minn. (22a)
 LeBlanc Bros., Baton Rouge, La. (17e)
 LeBlanc, Inc., Houston, Texas (42d)
 Leck, D'Arcy, Constr. Co., Minneapolis, Minn. (22a)
 Leck, Jas., Co., Minneapolis, Minn. (22a)
 Lecoutour Constr. Co., St. Louis, Mo. (24c)
 Lee Constr. Co., San Leandro, Calif. (4b)
 Lee Constr. Co., Charlotte, N. C. (32a)
 Lee Constr. Co., Memphis, Tenn. (41c)
 Lee, Frank H., & Co., West Memphis, Ark. (41c)
 Lee, J. Gordon, New Orleans, La. (17a)
 Lee & Johnson, Sioux City, Iowa (26b)
 Lee, L. S., & Son, Oaks Corners, N. Y. (31d)
 Lee, Ray M., Co., Atlanta, Ga. (10a)
 Lee, Robt., Inc., Manning, S. C. (32a)
 Lee, T. H., Corpus Christi, Texas (42j)
 Leffler, A. S., Gravel Co., Davison, Mich. (21c)
 Leftwich, J. D., Contrs., Inc., Albuquerque, N. Mex. (30b)
 Lehman-Roberts Co., Lexington, Ky. (16a)
 Lehr Constr. Co., St. Joseph, Mo. (L)
 Leighton, H. N., Co., Minneapolis, Minn. (22a)
 Leimbach Constr. Corp., Inc., Baltimore, Md. (19a)
 Lemke Constr. Co., Albuquerque, N. Mex. & Las Vegas, Nev. (27b) (30b)
 Lemoine, S. J., & Co., Bunkie, La. (17f)
 Lemon, Haskell, Tishomingo, Okla. (35b)
 Lena, Nat., Oakland, Calif. (4a)
 Lentz Constr. Co., Sacramento, Calif. (4b)
 Lentz, John P., Dallastown, Pa. (37a)
 Leonard Constr. Co., Chicago, Ill. (12a)
 Leonard Constr. Co., Saginaw, Mich. (21c)
 Leonard & Slate Oregon, Ltd., Portland, Oreg. (36a)
 Leone, Domenic, Constr. Co., Inc., Trinidad, Colo. (5b)
 Leonhard, J. T., Constr. Co., Columbus Junction, Iowa (14a)
 Leslie, C. E., Kingsville, Texas (42i)
 Leslie, John T., Waxahachie, Texas (42f)

L

- L. A. Paving Co., Los Angeles, Calif. (4d)
 L & M Constr. Co., Memphis, Tenn. (41c)
 LaBarge Bros. Co., Inc., Syracuse, N. Y. (31d)

- Levasseur, A. J., Constr. Co., Shreveport, La. (17b)
- Lewellen, E. A., Oklahoma City, Okla. (35a)
- Lewis & Bowman, Goldsboro, N. C. (29a)
- Lewis Constr. Co., Great Falls, Mont. (25a)
- Lewis & Frisinger Co., The, Ann Arbor, Mich. (21c)
- Lewis & Lewis, Fort Worth, Texas (42c)
- Lewis & McDowell, Inc., New York, N. Y. (31d) (29a)
- Lewis, Nelson T., Hayward, Calif. (4a)
- Lewis, P. R., Huntington, W. Va. (47a)
- Lewis & Queen, Los Angeles, Calif. (4d)
- Lewis, R. C., Constr., Inc., Oakland, Calif. (4a)
- Libbey & Libby Co., Minneapolis, Minn. (22a)
- Liberty Bldg. Co., Los Angeles, Calif. (4d)
- Lichtefeld, Fred J., & Son, Louisville, Ky. (16b)
- Lien, C. H., Constr. Co., Inc., Rapid City, S. Dak. (40a)
- Lien, Chris S., Co., Holdrege, Nebr. (26a)
- Lillebo, Tom, Reedsport, Oreg. (36a)
- Lilly, Roy M., Baton Rouge, La. (17e)
- Linbeck Constr. Corp., Houston, Texas (42d)
- Lincoln, Martin P., Co., Chicago, Ill. (12a)
- Lind, Geo. W., Portland, Oreg. (36a)
- Lindberg, A., & Sons, Ishpeming, Mich. (21c)
- Lindekugel & Sons Road Constr. Co., Spencer, S. Dak. (40a)
- Linden & Sons, Inc., Rockford, Ill. (12b)
- Lindgren & Son Constr. Co., Salina, Kans. (15a)
- Lindgren & Swinerton, Inc., Los Angeles, Calif. (4d)
- Lindsey-Davis Co., Chattanooga, Tenn. (41a)
- Lindstrom & Anderson, St. Paul, Minn. (22a)
- Lindstrom Bros., Inc., Portland, Oreg. (36a)
- Lindstrom & Pattillo Engr. Co., Inc., Birmingham, Ala. (1a)
- Lindstrom & Swanson, Inc., Akron, Ohio (34a)
- Lindstrom & Williams, Denver, Colo. (5b)
- Linebarger Constr. Co., Little Rock, Ark. (3a)
- Lineberry Bldg. Contrs., Santa Fe, N. Mex. (30b)
- Lines Co., The H. Wales, Meriden, Conn. (6a)
- Lining, M. C., & Sons, Medford, Oreg. (36a)
- Linker, Wm., Co., Inc., Philadelphia, Pa. (37d)
- Linnan, W. B., Pocatontos, Iowa (14a)
- Lippert Bros., Inc., Boone, Iowa & Oklahoma City, Okla. (14a) (14b) (35a)
- Lippert Constr. Co., Oelwein, Iowa (14b)
- Lipscomb, Wm. P., Co., Inc., Washington, D. C. (8a)
- Lissenden, P. C., Co., Inc., West Palm Beach, Fla. (9e)
- List, C. J., Constr. Co., Kansas City, Mo. (23a) (24b)
- List & Clark Construction Company, Kansas City, Mo. (N) (15b) (24b)
- List & Weatherly Constr. Co., Kansas City, Mo. (24b)
- Litchfield Constr. Co., San Rafael, Calif. (4a)
- Little-Hill Constr. Co., Amarillo, Texas (42g)
- Little, Matthew A., San Francisco, Calif. (4a)
- Little Rock Bldrs., Inc., Little Rock, Ark. (3a)
- Little & Spratt, Inc., Charlotte, N. C. (32a)
- Lively, Ed., Constr. Co., Farmington, N. Mex. (5b)
- Livingston Truck & Materials Co., Long Beach, Calif. (4d)
- Lobrano Mfg. & Constr. Co., Baton Rouge, La. (17d)
- Lockhart & Warren, Inc., Houston, Texas (42d)
- Lockwood, L. V., Glasgow, Mont. (25a)
- Lof, John, & Sons, Omaha, Nebr. (26a)
- Logan, W. E., & Sons, Muskogee, Okla. (35b)
- Lohmann, H. R., Co., Tulsa, Okla. (35a)
- Lohse, Frank, Walla Walla, Wash. (46b)
- Long Constr. Co., Billings, Mont. (25a)
- Long Construction Company, Kansas City, Mo. (N) (24a)
- Long, H. L., Ft. Myers, Fla. (9c)
- Longhi, Louis, & Son, Glens Falls, N. Y. (31d)
- Loomis Bros., Cedar Rapids, Iowa (14b)
- Loomis, C. M., Grand Rapids, Mich. (21c)
- Loranger, Theo, & Sons, New Bedford, Mass. (20b)
- Lorber, Melvin, Los Angeles, Calif. (4d)
- Lord & Bishop, Sacramento, Calif. (4b)
- Lord, P. S., Mechanical Contrs., Portland, Oreg. (36a)
- Lorenz Bros., Portland, Oreg. (36b)
- Loselle Constr. Co., Wyandotte, Mich. (21c)
- Lotz, Wm. F., Philadelphia, Pa. (37d)
- Lough, Wm., & Sons, Marion, Ill. (12c)
- Louisville Asphalt Co., Louisville, Ky. (16b)
- Love, Inc., Charleston, W. Va. (47a)
- Lovejoy Constr. Co., Des Moines, Iowa (14b)
- Lovell & Hart Constr. Co., Lexington, Ky. (16a)
- Lowering Constr. Co., St. Paul, Minn. (22a)
- Loving, T. A., & Co., Goldsboro, N. C. (32a)
- Lowder, Ray D., Inc., Albemarle, N. C. (32a)
- Lowdermilk Bros., Denver, Colo. & Espanola, N. Mex. (5b) (30a)
- Lowe Constr. Co., Marion, Iowa (14a)
- Lowell, E. E., Vallejo, Calif. (4b)
- Lowrie Paving Co., San Francisco, Calif. (4b)
- Lowry, John, Inc., New York City (31c)
- Loyd, Ernest, Fort Worth, Texas (42f)
- Lucarelli, B. J., & Co., Inc., Jersey City, N. J. (L)
- Ludberg, Clyde M., Co., Spokane, Wash. (46e)
- Luddington & Austin, Tampa, Fla. (9c)
- Lueder Constr. Co., Omaha, Nebr. (26a)
- Luedtke Engr. Co., Frankfort, Mich. (21c)
- Lugano Bros., Inc., Belleville, N. J. (29a)
- Luhr Bros., Inc., Columbia, Ill. (23a)
- Lundeen Constr. Co., Montezuma, Iowa (14a)
- Lundgren, J. A., & Son, Topeka, Kans. (15a)
- Lundin & Grip, Inc., Rockford, Ill. (12b)
- Lupinski, Inc., Milwaukee, Wis. (48a)
- Lupton, A. H., Jr., Bridgeton, N. J. (29a)
- Luth, Fred M., & Sons, Inc., St. Louis, Mo. (24b) (24c)
- Lyles, W. M., Co., Avenal, Calif. (4b)
- Lyman Richey Sand & Gravel Corp., Omaha, Nebr. (26b)
- Lynch, Harry S., Co., Inc., Wilmington, Del. (7a)
- Lynch, M. J., San Francisco, Calif. (4b)
- Lynch, Pugh & Corson, Inc., Morgantown, W. Va. (47a)
- Lynch, W. J., Co., Chicago, Ill. (12a)
- Lynn & Morsey, San Antonio, Texas (42e)
- Lynn, W. A., Constr. Co., Lincoln, Nebr. (24b) (26b)
- Lynn, Willis F., Berkeley, Calif. (4a)
- Lyon Constr. Co., Clinton, Mont. (25a)
- Lyons & Breeden, Madisonville, Ky. (16a)
- Lyons, Frank, & Co., Portland, Oreg. (36a)
- Lyons, Wm. T., Co., Inc., The, Baltimore, Md. (19a)
- Lytle-Amis, Lowell, Oreg. (36a)
- Lytle-Amis-San Ore, Ellis, Kans. (15b)
- Lytle, C. F., Company, Sioux City, Iowa (N) (14a)
- Lytle, C. F., Company & Green Constr. Co., Des Moines, Iowa (50a)
- Lytle, W. F., & Sons, Fort Worth, Texas (42c)

M

- M-B Contr. Co., Seattle, Wash. (46a)
- M. G. M. Constr. Co., Concord, Calif. (4b)
- M-J Constr. Co., Inc., Beeville, Texas (42f)
- M. J. B. Constr. Co., Stockton, Calif. (4b)
- M & K Corp., San Francisco, Calif. (4b)
- M & L Constr. Co., Little Rock, Ark. (3a)
- M & L Constr. Co., Philadelphia, Pa. (37d)
- M & M Dredg. & Constr. Co., Miami, Fla. (9b)
- M & R Constr. Co., East Boston, Mass. (20a)
- M & S Bituminous Oil & Constr. Co., East St. Louis, Ill. (12c)
- M & S Constr. Co., Inc., Pittsburgh, Pa. (37c)
- Mabry, Chester, Constr. Co., Tampa, Fla. (9c)
- Macal Improvement Co., Inc., Antioch, Calif. (4b)
- MacClosky, Chas., Co., San Francisco, & Los Angeles, Calif. (4b) (4d)
- Macco Constr. Co., Inc., Brisbane, Calif. (4b)
- Macco Corp., Paramount, Calif. (4d) (36a)
- Macdonald Bldg. Co., Tacoma, Wash. (46d)
- Macdonald Constr. Co., St. Louis, Mo. (21c)
- Macdonald Engr. Co., Chicago, Ill. (12a)
- MacDonald, W. T., Indianapolis, Ind. (13a)
- MacDonald, Young & Nelson, Inc., San Francisco, Calif. (4b) (4d)
- MacDougald Constr. Co., Atlanta, Ga. (10a) (32a)
- Machin, E. C., Inc., Allentown, Pa. (37a)
- MacIsaac & Menke Co., Los Angeles, Calif. (4d)
- Mack Constr. Co., Inc., Cape May, N. J. (29a)
- Mackey, Edwin J., Sacramento, Calif. (4a)
- Mackley & Ralston, Minot, N. Dak. (22a)
- MacIair Asphalt Co., Inc., East St. Louis, Ill. (12c)
- Maclean Constr. Co., Lansing, Mich. (21c)
- MacMen, Inc., Los Angeles, Calif. (4d)
- MacMillin Co., The, Keene, N. H. (28a)
- MacNamee, Daniel F., & Co., Inc., New Rochelle, N. Y. (31d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Macomber, Geo. B. H., Co., Inc., Boston, Mass. (20b)
- MacRae Bros., Seattle, Wash. (46a)
- Mac's Bldrs., Little Rock, Ark. (3a)
- Maddox, C. L., Phoenix, Ariz. (2a)
- Madewell & Mock Constr. Co., Memphis, Tenn. (41c)
- Madison Constr. Co., Edwardsville, Ill. (12c)
- Madison County Constr. Co., Inc., Madison, N. Y. (31d)
- Madonna Constr. Co., San Luis Obispo, Calif. (4d)
- Madsen Constr. Co., Minneapolis, Minn. (22a)
- Maescher, Chas. V., & Co., Cincinnati, Ohio (34b)
- Magaw, W. L., Richmond, Ind. (13a)
- Magee, W. W., Co., St. Paul, Minn. (22a)
- Magoffin, S. S., Co., Englewood, Colo. (5b)
- Maguire Constr. Co., Normandy, Mo. (24c)
- Maguire, J. C., & Co., Los Angeles, Calif. (4d)
- Maguire, Jos. T., Co., Inc., Lowell, Mass. (20b)
- Mahoney Bros., Baltimore, Md. (19b)
- Mahoney, E. J., Contr. Co., Mt. Pleasant, Mich. (42m)
- Mahony-Frost Constr. Co., Inc., Passaic, N. J. (L)
- Maier, Chas., & Son Co., Milwaukee, Wis. (48a)
- Mainelli Constr. Co., Omaha, Nebr. (15a)
- Malanka, C. F., & Sons, Inc., Union City, N. J. (20a)
- Malaspina, Matt. & Co., Seattle, Wash. (46a)
- Malcom, C. T., Portland, Oreg. (36a)
- Malfitano, M., & Son, Inc., Pittsburg, Calif. (4b)
- Maloney, J. T., & Son, Webster Groves, Mo. (24b)
- Manchester Sand, Gravel & Cement Co., Inc., Manchester, N. H. (28a)
- Manderbach Constr. Co., Glendale, Calif. (4d)
- Mangham-Butler, Inc., Miami, Fla. (9b)
- Mangum, C. C., Raleigh, N. C. (32a)
- Manhattan Construction Co., Muskogee, Oklahoma City, & Tulsa, Okla.; Ft. Smith, Ark.; Houston, Texas (N) (35a)
- Manhattan Construction Co. of Texas, Houston, Texas (42d)
- Mann Constr. Co., Englewood, Colo. (5b)
- Mann Constr. Co., Orlando, Fla. (9c)
- Mann Constr. Co., New Albany, Ind. (16b)
- Mannella, Frank, Constr. Co., Pittsburgh, Pa. (37c)
- Manor Constr. Co., Inc., Columbia, S. C. (32a)
- Manson Constr. & Engr. Co., Seattle, Wash. (46b)
- Manuel, Paul, Reno, Nev. (27a)
- Many, B. J., Co., Inc., Chicago, Ill. (12a)
- Marbut, T. F., Emporia, Kans. (15b)
- Marchant Bros., Mercedes, Texas (42a)
- Marcus, M., Bldg. Co., Cincinnati, Ohio (34b)
- Mardian Constr. Co., Phoenix, Ariz. (2a)
- Marhofer, E. H., Jr. Co., Chicago, Ill. (12a)
- Mariani-O'Brien, Inc., St. Petersburg, Fla. (9c)
- Maring, Harry, Jr., Inc., Bridgeport, Conn. (6a)
- Marion Coal & Supply Co., Pittsburgh, Pa. (37c)
- Markham & Brown, Dallas, Texas (24b)
- Markham & Brown & L. L. Sanders, Dallas, Texas (23a)
- Markland, M. B., Contracting Co., Atlantic City, N. J. (L)
- Marks, Frank B., Jr., Newman, Calif. (4b)
- Marks, Howard E., Tracy, Calif. (4b)
- Marquis, Robt. R., Portsmouth, Va. (45a)
- Marrazzo, Tony, Boise, Idaho (11a)
- Marsch, Louis, Morrisonville, Ill. (12c)
- Marsellis-Warner Corp., Montclair, N. J. (29a)
- Marshall Constr. Co., Houston, Texas (42d)
- Marshall, G. E., Melstone, Mont. (25a)
- Marshall, J. L., & Sons, Inc., Pawtucket, R. I. (38a)
- Marshall, Logan P., Houston, Texas (42d)
- Marshall, S. A., Quincy, Wash. (4b)
- Marson Constr. Co., Inc., Somerville, Mass. (20b)
- Martell, F. H., Co., Inc., Washington, D. C. (8a)
- Martens, Henry M., Co., Detroit, Mich. (21a)
- Martin, Ben H., Easley, S. C. (32a)
- Martin Bros., Inc., Concord, Calif. (4b)
- Martin Constr. Co., Boise, Idaho (11a)
- Martin Constr. Co., Oklahoma City, Okla. (35a)
- Martin, F. E., Spokane, Wash. (46c)
- Martin, F. H., Constr. Co., Detroit, Mich. (21a)
- Martin, G. I., Albuquerque, N. Mex. (30a)
- Martin, Geo. C., Washington, D. C. (8a)
- Martin, J. B., San Antonio, Texas (42c)
- Martin, John, Co., Inc., Chattanooga, Tenn. (41a)
- Martin, L., & Son, Boston, Mass. (20b)
- Martin & Nettletrou Contr. Co., Pittsburgh, Pa. (37b)
- Martin, O. H., Co., Pittsburgh, Pa. (37b)
- Martin, R. H., Tucson, Ariz. (2a)
- Martyn Bros., Inc., Dallas, Texas (42j)
- Mary Constr. Co., Cape Girardeau, Mo. (24b)
- Maselli, N. D., Corp., The, Bloomfield, Conn. (31d)
- Mashuda, Frank, Co., Milwaukee, Wis. (37c)
- Masling, Frank, & Son, Monroe, La. (17g)
- Mason Bros. Constr. Co., Inc., Houston, Texas (42d)
- Mason, Henry M., Co., Inc., Portland, Oreg. (36b)
- Mason & Meents Constr. Co., Watseka, Ill. (12c)
- Mass, H. H., Constr. Co., Algonquin, Ill. (12c)
- Massacoe Bldrs., Inc., Simsbury, Conn. (6a)
- Massengale Cement Co., Mobile, Ala. (1a)
- Massey, W. R., Co., Newton, N. C. (32a)
- Massman Constr. Co., Kansas City, Mo. (24b)
- Mast, Harold T., Colfax, Wash. (46c)
- Master Masons Constr. Co., Philadelphia, Pa. (37d)
- Masters-Jackson Paving Co., Springfield, Mo. (24b)
- Masters & Mullen Constr. Co., The, Cleveland, Ohio (34c)
- Mastriani, S. G., Co., Scranton, Pa. (37a)
- Materne Bros., Spokane, Wash. (46c)
- Mathews Constr. Co., Alhambra, Calif. (4d)
- Mathis, A. F., West Des Moines, Iowa (14a)
- Mathis, Claude E., Amarillo, Texas (42g)
- Matich Bros., Colton, Calif. (4d)
- Mattern Constr. Co., Tulsa, Okla. (35a)
- Mathews Construction Company, Princeton, N. J. (L)
- Mattison, R. E., & Co., Britton, Okla. (35a)
- Mattson, Isak, & Son, Minot, N. Dak. (22a)
- Mattson, W. A., Burlington, Iowa (14b)
- Mauger-Smith, Inc., Columbus, Ohio (31d)
- Mauldin, L. M., Constr. Co., Albuquerque, N. Mex. (30b)
- Maurer, Fred J., & Son, Eureka, Calif. (4b)
- Maury, Sam P., Constr. Co., Memphis, Tenn. (41c)
- Mauzy & Wedaman, Memphis, Tenn. (41c)
- Mautz & Oren, Inc., Effingham, Ill. (12c)
- Maxey, Carl E., Lubbock, Texas (42d)
- Maxon Construction Company, Inc., Dayton, Ohio (N) (17e) (34d)
- Maxwell Bridge Co., The, Columbus, Kans. (15b) (24b)
- May, G. W., Little Rock, Ark. (3a)
- May, Wilfred H., Belmont, Calif. (4a)
- Mayer-Heier, Clarion, Iowa (14b)
- Mayersohn, Louis, Albany, N. Y. (31d)
- Mayes, Chas. A., Constr. Co., Albion, Ill. (12c)
- Mayfield Constr. Co., Kokomo, Ind. (13b)
- Mayfield, N. R., Tahoe City, Calif. (4a)
- McAbee, F. R., Inc., Seattle, Wash. (46b)
- McAlister Constr. Co., Pine Bluff, Ark. (23a)
- McAnulty, Inc., Bradenton, Fla. (9c)
- McAnulty, J. H., Chico, Calif. (4b)
- McAttee & Heath, Spokane, Wash. (46c)
- McBride & Britton, Stockton, Calif. (4b)
- McBride & Son, Inc., Bastrop, La. (17g)
- McCall Engr. Co., Houston, Texas (42f)
- McCalman Constr. Co., Danville, Ill. (12c) (13a)
- McCann & Co., Inc., Springfield, Ill. (12c)
- McCann Constr. Co., Fort Worth, Texas (42c)
- McCarthy, Ed. A., & Son, Cincinnati, Ohio (34b)
- McCarthy Improvement Co., Davenport, Iowa (12c) (14a)
- McCarthy, Robt., Co., San Francisco, Calif. (4a)
- McCartney, Birch, Veradale, Wash. (46c)
- McClain Constr. Co., Inc., Hawthorne, Calif. (4d)
- McClanahan, Fred C., & Son, Shreveport, La. (17b)
- McClellan-Brown-McClellan, Waco, Texas (42L)
- McClintock, R. S., Diamond Drill Co., Spokane, Wash. (46c)
- McClinton Bros. Constr. Co., Fayetteville, Ark. (3a) (35b)
- McCloskey & Co., Philadelphia, Pa. (8a)
- McConnell Constr. Co., Muskogee, Okla. (35b)
- McConnell Constr. Co., Russell, Kans. (15b)
- McCorkle, L. E., Contr. Co., Winterset, Iowa (14b)
- McCorkle, Paul, Constr. Co., Sac City, Iowa (14b)
- McCorkle, Tom, Constr. Co., Boise, Idaho (11a)
- McCormack, R. C., St. Louis, Mo. (24c)
- McCosker, A. J., Berkeley, Calif. (4b)

- McCoy & Butler, Yuba City, Calif. (4a)
 McCrady Constr. Co., Pittsburgh, Pa. (37c)
 McCrae & Nofstger, Oklahoma City, Okla. (35a)
 McGree & Co., St. Paul, Minn. (22a)
 McCree, M. D., Constr. Co., Inc., Iowa City, Iowa (14b)
 McCrory, C. E., Constr. Co., Memphis, Tenn. (41c)
 McCullough, Maurice B., Salt Lake City, Utah (43a)
 McCullough, Royden K., Salt Lake City, Utah (43a)
 McDermott, J. Ray, & Co., Inc., Harvey, La. (17e)
 McDewitt & Street Company, Charlotte, N. C. (N) (32a)
 McDonald, Henry C., Co., Kilgore, Texas (42j)
 McDonough Constr. Co., Parkersburg, W. Va. (47a)
 McDougall, Natt, Co., Portland, Oreg. (36a)
 McDowell Constr., Victorville, Calif. (4d)
 McElderry, B. S., Berkeley, Calif. (4b)
 McEwen, A. R., Willits, Calif. (4b)
 McFadden, Jos., & Son, Palo Alto, Calif. (4b)
 McGeorge Contr. Co., Inc., Pine Bluff, Ark. (3a)
 McGeorge, W. P., Jr., Pine Bluff, Ark. (24b)
 McGillivray Constr. Corp., Sacramento, Calif. (4b)
 McGillivray Bros., Ketchikan, Alaska (50a)
 McGlone, Perry, Constr. Co., Kansas City, Mo. (15b)
 McGowan, M. B., Inc., San Francisco, Calif. (4b)
 McGranahan, K. J., Santa Cruz, Calif. (4a)
 McGraw, Jas., Co., Philadelphia, Pa. (29a)
 McGreevey, John F., & Co., Inc., Manassas, N. J. (29a)
 McGuire, H. A., & Co., Memphis, Tenn. (41c)
 McGuire & Hester, Oakland, Calif. (4b)
 McGuire, J. P., Constr. Co., Durham, N. C. (32a)
 McGuire, M. T. & John T., Algona, Iowa (14a)
 McHugh, Jas., Constr. Co., Chicago, Ill. (12a)
 Mellyar, W. K., Constr. Co., Dallas, Texas (42j)
 McInnis Constr. Co., Spokane, Wash. (46e)
 McIntire, F. B., Constr. Co., Fort Worth, Texas (42c)
 McKean, H. J., Salt Lake City, Utah (43a)
 McKee, Robt. E., New Orleans, La.; Santa Fe, N. Mex.; Dallas, & El Paso, Texas (2a) (30b) (42a) (17a)
 McKee, Robt. E., Gen. Contr., Inc., Glendale, Calif. (4d)
 McKellar, Everett, Chelan, Wash. (46a)
 McKenzie Constr. Co., San Antonio, Texas (42e) (42f) (42j)
 McKenzie, D. F., Salem, Oreg. (36a)
 McKenzie-Hague-Simmons Co., Minneapolis, Minn. (22a)
 McKie Lighter Co., Boston, Mass. (20a)
 McKinney Constr. Co., Sunbury, Pa. (37a)
 McKinney, R. W., Nacogdoches, & Abilene, Texas (42f)
 McKinnon Constr. Co., Reedsport, Oreg. (36a)
 McKinnon-Decker Co., Helena, Mont. (25a) (25b)
 McKittrick, E. S., Co., Inc., Huntington Park, & Oakland, Calif. (4a) (4d)
 McKown & Sons, Austin, Texas (42f)
 McKoy-Helgeson Co., Greenville, S. C. (32a)
 McLain Constr. Corp., Buffalo, N. Y. (31d)
 McLaren Bros. Constr. Co., West Palm Beach, Fla. (9e)
 McLaughlin Constr. Co., Livingston, Mont. (25a)
 McLaughlin, Inc., Great Falls, Mont. & Palmer, Alaska (50a) (25a)
 McLean Contracting Company, Baltimore, Md. (N)
 McMahan Constr. Co., Rochester, Ind. (13a)
 McMeekin Constr. Co., Cheraw, S. C. (32a)
 McMichael Concrete Co., Tulsa, Okla. (35b)
 McMichael Constr. Co., Shreveport, La. (17b)
 McMillan, Hugh, El Paso, Texas (42f)
 McMillin-Burkett Constr. Co., Texarkana, Texas (42f)
 McMullen Co., The, Lincoln, Nebr. (26b)
 McMullin-Larson & Co., Dallas, Texas (42f)
 McMurray, A. R., Constr. Co., Knoxville, Tenn. (41b)
 McNally Constr. Co., Saginaw, Mich. (21c)
 McNary Dam Contrs., Plymouth, Wash. (36a) (46c)
 McNeel, H. J., Inc., Caldwell, Idaho (11a)
 McNeese Constr. Co., Memphis, Tenn. (41c)
 McNeil, J. A., Co., Los Angeles, Calif. (4d)
 McNeill, J. W., Constr. Co., Sioux City, Iowa (14a)
 McNutt Bros., Eugene, Oreg. (36a)
 McPhail Engineering, Tacoma, Wash. (46d)
 McQuade, Jas. H., & Sons Co., Pittsburgh, Pa. (37c)
 McQuade, John S., Jr., Philadelphia, Pa. (37d)
 McQuaid Constr. Co., Fort Worth, Texas (42c)
 McRae, Farquhar, Savannah, Ga. (10a)
 McShain, Inc., Philadelphia, Pa. (37d)
 McShain, John, Inc., Arlington, Va. (8a)
 McShane, F. L., Contr. Co., Pittsburgh, Pa. (37c)
 McVean & Roberts Pipe Line Constr. Co., Odessa, Texas (42m)
 McWilliams Dredging Company, New Orleans, La. (N) (23a)
 Meade & Holler Contr. Corp., New York, N. Y. (31d)
 Meador Constr. Co., Atlanta, Ga. (10a)
 Meagher, W. J., & Sons, Bay City, Mich. (21c)
 Means Constr. Co., Jacksonville, Fla. (9a)
 Mears Constr. Co., Osceola, Ark. (23a)
 Mecham, M. S., & Sons, South Gate, Calif. (4d)
 Meco Constr. Co., Houston, Texas (42d)
 Meers Constr. Co., Dallas, Texas (42a)
 Meers, E. W. G., Constr. Co., Memphis, Tenn. (41c)
 Mefford Constr. Co., Enid, Okla. (35a)
 Meglin, W. J., Inc., Naugatuck, Conn. (6a)
 Mehren, John G., Campbell, Calif. (4b)
 Meinecke-Johnson Co., Fargo, N. Dak. (22a)
 Meitz-Spears-Dehner Co., Inc., Fort Wayne, Ind. (13a)
 Melberg, Amos, Cedar Rapids, Iowa (14a)
 Mellon-Stuart Co., Pittsburgh, Pa. (37b)
 Mel Mar Co., Los Angeles, Calif. (4d) (4b)
 Mendenhall, Deal, Springville, Utah (43a)
 Menefee, W. J., Constr. Co., Sedalia, Mo. (24b)
 Mercer-Fraser Co., Eureka, Calif. (4b)
 Merchant Constr. Co., Asheville, N. C. (32a)
 Merrill, Ted F., & Sons, Inglewood, Calif. (4d)
 Merritt-Chapman & Scott Corp., New York, N. Y.; New London, Conn. & Cleveland, Ohio (N) (20a)
 Merritt Constr. Co., Grove, Okla. (35b)
 Meshberger Bros. Stone Corp., Linn Grove, Ind. (13a)
 Messenger, A. Lbr. & Milwk. Constr. Co., The, Pittsburg, Kans. (15a)
 Messer, Frank, & Sons, Inc., Cincinnati, Ohio (34b)
 Messmer, Jack G., Constr. Co., Indianapolis, Ind. (13b)
 Metcalfe & Hamilton Constr. Co., Kansas City, Mo. (24b)
 Metropolitan Paving Co., Inc., Oklahoma City, Okla. (35b)
 Metzger Constr. Corp., Buffalo, N. Y. (31a)
 Meyers, B. E., Inc., Coral Gables, Fla. (9b)
 Meyer, C. R., & Sons Co., Oshkosh, Wis. (48b)
 Meyer, Edw. H., Constr. Co., Neenah, Wis. (48b)
 Meyer-Hecht Co., Cincinnati, Ohio (34b)
 Meyer, Robt. Wm., Cadillac, Mich. (21c)
 Meyers, Walter, Spokane, Wash. (46c)
 Meyerson, Albert, Co., Houston, Texas (42d)
 Meyne, Gerhardt F., Co., Chicago, Ill. (12a)
 Mickelson, John H., Logan, Utah (43a)
 Mickle & Ross Constr. Co., Newton, Iowa (14a)
 Micotto, R. C., Constr. Co., St. Louis, Mo. (24c)
 Mid-America Engr. Corp., Skokie, Ill. (21c)
 Middle States Bituminous Corp., Ashland, Ky. (16a)
 Middle West Roads Co., Noblesville, Ind. (13a)
 Middleton, G. W., Providence, R. I. (38a)
 Middleton-Goldston, Corpus Christi, Texas (42i)
 Midland Constr. Co., Missoula, Mont. (25a)
 Midland Constrs., Inc., Chicago, Ill. (12a)
 Midland Contr. Co., Midland, Mich. (21c)
 Mid-South Contrs., Inc., Memphis, Tenn. (41c)
 Mid-State Bldrs., Inc., Utica, N. Y. (31d)
 Midstate Constr. Co., San Francisco, Calif. (4a)
 Midwest Constr. Co., Holton, Kans. (15b)
 Midwest Constrs., Inc., Poplar Bluff, Mo. (24b)
 Midwest Contr. Co., Minneapolis, Minn. (22a)
 Midwest Contr. Co., Dallas, Texas (42j)
 Midwest Piping & Supply Co., Inc., Los Angeles, Calif. (4b)
 Midwest PreCote Co., Kansas City, Mo. (15b) (24b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Midwestern Constrs., Inc., Tulsa, Okla. (42m)
- Mikkelsen, E. C., Constr. Co., Inc., Kirkwood, Mo. (24c)
- Mildenstein, Max, Cedar Rapids, Iowa (14b)
- Miles & Bailey, Madera, Calif. (4b)
- Miles, L. J., Constr. Co., Fort Worth, Texas (42f)
- Millay & McBride Co., Waco, Texas (5b)
- Miller, A. L., Sacramento, Calif. (4b)
- Miller Constr. Co., Thomasville, N. C. (32a)
- Miller-Davis Co., Kalamazoo, Mich. (21b)
- Miller Excavating Co., Omaha, Nebr. (26a)
- Miller, Geo., Constr. Co., Los Angeles, Calif. (4d)
- Miller, Geo. E., Reno, Nev. (27a)
- Miller, H. W., Constr. Co., Inc., Covington, Ky. (34b)
- Miller, Haynes, Smith, Inc., Henderson, Nev. (27b)
- Miller & Henkel, Fresno, Calif. (4b)
- Miller, John G., Constr. Co., Waterloo, Iowa (14a) (14b)
- Miller & Miller, Los Angeles, Calif. (4d)
- Miller & Norton, Dallas, Texas (42a)
- Miller, Paul C., Comstock Park, Mich. (21c)
- Miller, Rodney, Co., The, Coral Gables, Fla. (9b)
- Miller & Smith, Albuquerque, N. Mex. (30a)
- Miller-Stauch Constr. Co., Kansas City, Mo. (24a)
- Miller & Strong, Inc., Eugene, Oreg. (36a)
- Miller, T., & Sons, Lake Charles, La. (17c) (17e) (17f)
- Miller, W. L., Co., Elvaston, Ill. (12c)
- Miller, W. R., Houston, Texas (42d)
- Millie, G. O., Constr. Co., San Rafael, Calif. (4a)
- Milligan, O. D., Constr. Co., Manhattan, Kans. (15a)
- Millis, Ray, Omaha, Nebr. (26b)
- Mills & Jones, Inc., St. Petersburg, Fla. (9c)
- Mills, Ralph E., Co., Salem, Va. (45a)
- Millstone, I. E., Constr. Co., St. Louis, Mo. (24c)
- Minnis & Shilling, Eugene, Oreg. (36a)
- Minnotte Bros. Co., Pittsburgh, Pa. (37b)
- Minton Constr. Co., Cleveland, Ohio (34c)
- Mion Constr. Co., Atlanta, Ga. (10a)
- Miron, P. G., Constr. Co., Inc., Appleton, Wis. (48b)
- Misch, Arthur O., Co., Detroit, Mich. (21a)
- Misco, Inc., Seattle, Wash. (46a)
- Mission Equip. & Constr. Co., Mission, Kans. (15b)
- Mississippi Valley Engr. & Constr. Co., Memphis, Tenn. (23a) (41c)
- Missner Constr. Co., Chicago, Ill. (12a)
- Missouri Petroleum Prods. Co., Clayton, Mo. (24b)
- Mitchell, C. E., & Sons, Great Falls, Mont. (25b)
- Mitchell Contr. Co., Herrin, Ill. (12c)
- Mitchell, E. J., Constr. Co., Wellington, Kans. (15a)
- Mitchell, E. Stewart, Inc., Baltimore, Md. (19b)
- Mitchell, G. W., San Antonio, Texas (42e)
- Mitchell, H. F., Constr. Co., Burlington, N. C. (32a)
- Mitchell & Osborne, Fort Worth, Texas (42c)
- Mitchell, Roy M., Shreveport, La. (42j)
- Mitchell, Russ, Inc., Houston, Texas (42f) (42j)
- Mittry Bros. Constr. Co., Los Angeles, Calif. (4d)
- Mitzel Co., The, Cleveland, Ohio (34c)
- Mixon, B. H., Henderson, N. C. (32a)
- Mobilhome Corp. of America, The, Bakersfield, Calif. (4b)
- Mobley, Clarence, Constr. Co., Augusta, Ga. (10a) (32a)
- Modern Bldrs. Constr. Co., Inc., Long Beach, Calif. (4d)
- Modern Bldrs., Inc., Rocky Mount, N. C. (32a)
- Modern Bldg. Co., Chico, Calif. (4a)
- Modern Repair Co., Atlanta, Ga. (10a)
- Modernization Constr. Co., Atlanta, Ga. (10a)
- Moeller, Geo., Constr. Co., St. Louis, Mo. (24c)
- Moellering Constr. Co., Fort Wayne, Ind. (13a)
- Mohawk Paving Co., Geneva, N. Y. (31d)
- Mohler Constr. Co., Washington, D. C. (8a)
- Mohr Constr. Co., Inc., Kokomo, Ind. (13a)
- Mohr, Henry, Boston, Mass. (20a)
- Moline, E. A., Jamestown, N. Dak. (22a)
- Molzahn, Theo J., & Sons, Inc., La Crosse, Wis. (48b)
- Monaco Constr. Co., The, Bridgeport, Conn. (6a)
- Monaghan, J. H. & N. M., & Assoc. Cos., Derby, Colo. (5b) (49a)
- Monarch Engr. Co., Falls City, Nebr. (26b)
- Monroe Constr. Co., Monroe, Wash. (46a)
- Monson Bros., San Francisco, Calif. (4a)
- Montag, C. J., & Sons, Portland, Oreg. (36a)
- Montana Engr. & Constr. Co., Helena, Mont. (25a)
- Montank & Son, Los Angeles, Calif. (4d)
- Montgomery, F. O., Co., Humboldt, Iowa (14a)
- Montgomery, J. M., & Co., Inc., Los Angeles, Calif. (4d)
- Montgomery, P. O'B., Dallas, Texas (42a)
- Montgomery, T. M., Auburn, Calif. (4b)
- Monty Bros., St. Albans, W. Va. (47a)
- Mooney, W. E., Co., Inc., Washington, D. C. (8a)
- Moore, Bart, Co., San Antonio, Texas (42f)
- Moore Bros. Constr. Co., Lufkin, Texas (42f)
- Moore Bros., Inc., East St. Louis, Ill. (12c) (12d)
- Moore Bros., Inc., Ada, Okla. (35b)
- Moore Constr. Co., Myrtle Beach, S. C. (32a)
- Moore Constr. Co., Rapid City, S. Dak. (40a)
- Moore Constr. Co., Austin, Texas (42k)
- Moore, Edw. S., & Sons, St. Petersburg, Fla. (9c)
- Moore Engr. Co., Mt. Vernon, Ill. (12c)
- Moore, G. E., Co., Inc., Greenwood, S. C. (32a)
- Moore, Harold B., Windham, N. Y. (31d)
- Moore & Moore, LaPorte, Texas (42d)
- Moore, P. J., & Son, North Sacramento, Calif. (4b)
- Moore & Roberts, San Francisco, Calif. (4a)
- Moorman, J. W., & Son, Muskogee, Okla. (35b)
- Mora, Gerald, Houston, Texas (42d) (42j)
- Moragne, Davis, Constr. Co., Columbia, S. C. (32a)
- Morehead Constr. Co., Cedar Rapids, Iowa (14b)
- Morehouse, E. R., Co., Camden, N. J. (29a)
- Moreland Constr. Co., Wichita, Kans. (15a)
- Moretti, Jos. G., Inc., Miami, Fla. (9b)
- Morgan & Co., Homestead, Pa. (37b)
- Morgan Constr. Co., Redding, Calif. (4b)
- Morgan, E. R., Gastonia, N. C. (32a)
- Morgan-Holloman Constr. Co., Tuscaloosa, Ala. (1a)
- Morgan, J. E., & Sons, El Paso, & Dallas, Texas (L) (42a)
- Moritz, C. J., Inc., Effingham, Ill. (12c)
- Morrin, M., & Son, Ogden, Utah (43a)
- Morris Constr. Co., Denver, Colo. (5a)
- Morris Constr. Co., Greenville, S. C. (32a)
- Morris, Edgar, Atlanta, Ga. (10a)
- Morris, Robt., Constr. Co., Austin, Texas (42k)
- Morris, W. E., Birmingham, Ala. (1a)
- Morrison Constr. Co., Seattle, Wash. (46a)
- Morrison Constr. Co., Inc., Austin, Texas (42m)
- Morrison-Knudsen Co., Inc., Boise, Idaho; Los Angeles, & San Francisco, Calif.; Seattle, Wash.; Portland, Oreg. & New York, N. Y. (N) (4d) (11a) (23a) (36a) (46a) (49a) (50a) (4b)
- Morrow Bros., Inc., Baltimore, Md. (19a)
- Morrow, E. L., Mobile, Ala. (1a)
- Mortensen, Nelse, & Co., Inc., Seattle, Wash. (46b) (50a)
- Morton, Jas. P., Constr. Co., Placerville, Calif. (4a)
- Moser, F. A., Farmersburg, Iowa (14a)
- Mosher & Kiker, El Reno, Okla. (35b)
- Moss Constr. Co., Charlotte, N. C. (32a)
- Moss, Edwin, & Son, Inc., Bridgeport, Conn. (6a)
- Moss, R. L., Constr. Co., Zenith, Wash. (46a)
- Moss-Thornton Co., Inc., Leeds, Ala. (1a)
- Mott Constr. Co., Centerville, Iowa (14a)
- Mott Core Drilling Co., Huntington, W. Va. (47a)
- Mott-Mohr Constr. Co., Inc., New Haven, Conn. (6a)
- Mountaineer Engr. Co., Inc., Coraopolis, Pa. (37c)
- Mouton, J. B., & Sons, Lafayette, La. (17f)
- Mowat, A. F., Constr. Co., Seattle, Wash. (46b)
- Mowery, Raymond S., Carlisle, Pa. (37a)
- Mozzicato, Jas. S., Medford, Mass. (20b)
- Muehlenbeck, Wm. J., Saginaw, Mich. (21c)
- Mueller, C. W., Louisville, Ky. (16b)
- Muirhead, Wm., Construction Company, Inc., Durham, N. C. (N) (32a)
- Mulcare, Thos., Corp., Boston, Mass. (20b)
- Mullen, D. L., & Co., Brownsville, Texas (42n)
- Mullinix Constr. Co., Oklahoma City, Okla. (35b)
- Mullins, John M., Inc., Troy, N. Y. (31d)
- Mullis, Carl W., Lumber Co., Lancaster, S. C. (32a)
- Mulloy, Chas. J., & Sons, Sturgis, S. Dak. (40a)
- Munn, Arch. & Sons, Dallas, Texas (42a)
- Munn, Geo. R., Atlanta, Ga. (10a)
- Munn & Perkins, Modesto, Calif. (4b)
- Munter, M. P., Co., Seattle, Wash. (46a) (50a)
- Murch-Jarvis Co., Inc., St. Louis, Mo. (12d) (24c)

Murdock Constr. Co., The, Norwood, Ohio (34b)
 Murphey & Keith Bldg. Co., Tucson, Ariz. (2a)
 Murphy Bros., Spokane, Wash. (46c)
 Murphy Constr. Co., The, West Palm Beach, Fla. (9e)
 Murphy, J. C., Baton Rouge, La. (17d)
 Murphy, J. R., Fort Worth, Texas (42c)
 Murphy, Martin, Walnut Creek, Calif. (4b)
 Murphy-McDonnell Co., Upper Darby, Pa. (37d)
 Murphy-Quigley & Co., Philadelphia, Pa. (37d)
 Murphy-Smestad Constr. Co., Fargo, N. Dak. (40a)
 Murphy, Wm., & Son, St. Paul, Minn. (22a)
 Murray, C. D., Co., Inc., Syracuse, N. Y. (31d)
 Murrell Constr. Co., Philadelphia, Pa. (37d)
 Musick, Don C., Constr. Co., St. Louis, Mo. (24c)
 Muskegon Constr. Co., Muskegon, Mich. (21b)
 Mutersbaugh, A. M., Lake Charles, La. (17c)
 Mutual Constr. Co., Inc., Bridgeport, Conn. (6a)
 Myers Bros., Los Angeles, Calif. (4d)
 Myers Bros., Ft. Atkinson, Iowa (14a)
 Myers Constr. Co., Inc., Charlotte, N. C. (32a)
 Myers, Geo. M., Inc., El Dorado, Kans. (15b)
 Myers, J. E., Kingsport, Tenn. (41e)
 Myers, Ralph, Contr. Corp., Salem, Ind. (13a)

N

Nagel, J. J., Perham, Minn. (22a)
 Nagelkirk & Ranta, Grand Rapids, Mich. (21c)
 Nanticoke Constr. Co., Nanticoke, Pa. (37a)
 Napp-Grecco Co., The, Newark, N. J. (29a)
 Nappe Constr. Co., Inc., Burbank, Calif. (4d)
 Nardulli & Sons Co., Inc., Pittsburgh, Pa. (37c)
 Nashert, Walter, Co., Oklahoma City, Okla. (35a)
 Nason & Cullen, Philadelphia, Pa. (37d)
 Nasvik Constr. Co., Bemidji, Minn. (22a)
 National Concrete Fireproofing Co., The, Cleveland, Ohio (34c)
 National Constr. Co., Omaha, Nebr. (14a) (26b)
 National Paving & Contr. Co., Baltimore, Md. (19b)
 National Steel & Shipbldg. Corp., San Diego, Calif. (4c)
 Naugle-Leck, Inc., Minneapolis, Minn. (22a)
 Naumann, John, & Sons, Inc., Toledo, Ohio (34c)
 Navarro Corp., Pittsburgh, Pa. (37b)
 Neal, C. P., Constr. Co., Forest City, N. C. (32a)
 Nebel, Jos. F., Co., Washington, D. C. (8a)
 Neely, John C., Constr. Co., Wichita, Kans. (15a)
 Neff, Robt. A., Shreveport, La. (17b)
 Neighborhood Constr. Co., Huntington, W. Va. (47a)

Neitge, Ben, Constr. Co., Mankato, Minn. (22a)
 Nelson, C. L., & Co., Inc., Brainerd, Minn. (22a)
 Nelson, Carl A., & Co., Inc., Burlington, Iowa (14b)
 Nelson, Carl E., Logan, Utah (43a)
 Nelson & Co., Inc., Racine, Wis. (48b)
 Nelson, Geo., & Son, Inc., Madison, Wis. (48b)
 Nelson, M. E., Constr. Co., Ephrata, Wash. (46c)
 Nelson, Mullen & Nelson, Inc., Minneapolis, Minn. (22a)
 Nelson, Mullen & Webster, Minneapolis, Minn. (22a)
 Nelson, N. A., Constr. Co., Sheridan, Wyo. (49a)
 Nelson, Olof, Constr. Co., Logan, Utah (43a)
 Nelson, Peter, & Son, Inc., La Crosse, Wis. (48b)
 Nelson, W. F., Co., San Diego, Calif. (4c)
 Nelson, Wendell E., Fallon, Nev. (27a)
 Nemmers Bros., LeMars, Iowa (14b)
 Nesmith, Robt. E., Inc., Houston, Texas (42d)
 Nesto Constr. Co., Newark, N. J. (29a)
 Netherton Co., Shreveport, La. (17c)
 Neumann, Arthur H., & Bros., Inc., Des Moines, Iowa (14a) (14b)
 Nevada Constr. Co., Inc., Las Vegas, Nev. (27b)
 Newbanks, Merrill W., Atlanta, Ga. (10a)
 Newbery Electric Corp., Los Angeles, Calif. (4d)
 Newbery Electric Corp. of Arizona, Phoenix, Ariz. (2a)
 Newburn, L. L., Seattle, Wash. (46a)
 New Jersey Asphalt & Paving Co., Jersey City, N. J. (29a)
 Newkirk, A. D., & Son, Jacksonville, Fla. (9a)
 Newman, Stanley W., Co., Inc., Mobile, Ala. (1a)
 Newport Constr. Co., Portland, Oreg. (36a)
 Newton, Harry, Inc., Graham, Texas (42f)
 Nicholas, K. B., Ontario, Calif. (4d)
 Nichols Constr. Co., Geneva, Nebr. (26b)
 Nichols, Harvey A., Los Angeles, Calif. (4d)
 Nicholson Co., Inc., The, New York City (31c)
 Nicholson, D. W., Corp., San Leandro, Calif. (4a)
 Nicholson, H. B., Pasadena, Calif. (4d)
 Nicholson, V. L., Co., Knoxville, & Nashville, Tenn. (41b) (41d)
 Nicol, Thos., & Co., Neptune, N. J. (29a)
 Nielsen Constr. Co., San Diego, Calif. (4c)
 Nielsen, N. R., & Son, Denver, Colo. (5a)
 Nielsen, S. N., Co., Chicago, Ill. (12a)
 Nigg Engr. Co., Covina, Calif. (4d)
 Nilson-Smith Constr. Co., Great Falls, Mont. (25a)
 Nivens Constr. Co., Charlotte, N. C. (32a)
 Nodland-Alberg Co., Alexandria, Minn. (22a)
 Nodland & Eby Co., Starbuck, Minn. (22a)
 Noel, Harry, Spencer, Iowa (14a)
 Noel, W. H., Co., Jamestown, N. Dak. (22a) (40a)
 Nolan Bros., Inc., Minneapolis, Minn. (25a)
 Nolan, E. C., Co., Centerline, Mich. (21c)

Nomellini Constr. Co., Stockton, Calif. (4b)
 Nonnemaker-Clayton Constr. Co., Atlanta, Ga. (10a)
 Noonan, R. S., Inc., York, Pa. (37a)
 Norfolk Bridge & Constr. Co., Norfolk, Nebr. (26b)
 Norlie Constr. Co., Chico, Calif. (4a)
 Normac, Inc., Huntington Park, Calif. (4d)
 Norman, F. L., Sidney, Iowa (14a)
 Norris Bros., Seattle, Wash. (46a)
 Norris, Guy J., Shelton, Wash. (36a)
 North Central Constr. Co., Hampton, Iowa (14a)
 North-Moller Co., Jackson, Mich. (21b)
 Northern Constr. Co., Grand Forks, N. Dak. (22a)
 Northern Improvement Co., Fargo, N. Dak. (22a)
 Northwest Constr. Co., Seattle, Wash. (46a)
 Northwest Precrete, Inc., Seattle, Wash. (46a)
 Northwestern Constr. Co., San Francisco, Calif. (4b)
 Northwestern Constr. Co., Minneapolis, Minn. (22a)
 Northwestern Engr. Co., Rapid City, S. Dak. & Denver, Colo. (5a) (5b) (25a) (26b) (40a) (49a)
 Nottingham, Jerry, Boise, Idaho (11a)
 Nottingham, M. C., Co., Temple City, Calif. (4d)
 Nunez Constr. Co., Inc., Texas City, Texas (42d)
 Nutter Constr. Co., Cragmere, Wilmington, Del. (7a)
 Nygren, David, Seattle, Wash. (46a)

O

Oak Constr. Co., Royal Oak, Mich. (21c)
 Oakland Sewer Constr. Co., Walnut Creek, Calif. (4b)
 Oberg Bros. Constr. Co., Inglewood, Calif. (4d)
 O'Brien & Bell Constr. Co., Anaheim, Calif. (4d)
 O'Brien, John M., Memphis, Tenn. (41c)
 O'Brien, W. F., St. Paul, Kans. (15b)
 O'Connell & Sweeney, Inc., Cincinnati, Ohio (34b)
 O'Connell's, Daniel, Sons, Inc., Holyoke, Mass. (1)
 O'Connor Bros., Red Bluff, Calif. (4b)
 O'Connor Constr. Co., Springfield, Ill. (12c)
 O'Connor Constr. Co., Fromberg, Mont. (25a)
 O'Connor, J. C., & Sons, Inc., Fort Wayne, Ind. (13a)
 O'Connor, J. D., Constr. Co., Inc., San Anselmo, Calif. (4b)
 O'Connor Oakes Co., Gretna, La. (17a)
 Odegard Constr. Co., Everett, Wash. (46b)
 Odell, L. W., San Marino, Calif. (4d)
 O'Dell & Riney Constr. Co., Kirkwood, Mo. (24b)
 Odman, Arthur, Fair Oaks, Calif. (4a)
 Odman Constr. Co., Seattle, Wash. (46a)
 Odom, J. M., Austin, Texas (42k)
 Oefflein, Walter W., Inc., Milwaukee, Wis. (48a)
 Ofeco Constr. Co., Inc., and/or Oil Field Constr. Co., Long Beach, Calif. (4d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

O'Hair, W. H., Co., Colusa, Calif. (4b)
 O'Herron, M., Co., Pittsburgh, Pa. (37c)
 Ohio Constr. Corp., Shelby, N. C. (32a)
 Okes Constr. Co., St. Paul, Minn. (22a)
 Oklahoma Contr. Corp., Dallas, Texas (42m)
 Oklahoma Paving Co., Oklahoma City, Okla. (35b)
 Okland Constr. Co., Salt Lake City, Utah (43a)
 Oldt, F. S., Co., Dallas, Texas (42f) (42j)
 Olerich, Walter F., Los Angeles, Calif. (4d)
 Olesen, Jens, & Sons Constr. Co., Waterloo, Iowa (14b)
 Olinger Constr. Co., Huntingburg, Ind. (13a)
 Olmstead, A. C., Janesville, Wis. (48b)
 Olney Constr. Co., Inc., Pensacola, Fla. (9d)
 Olney, H. B., Inc., East Chicago, Ind. (13b)
 O'Loughlin & Hansen, Rochester, Minn. (22a)
 Olsen, Walter L., Santa Rosa, Calif. (4a)
 Olson, A., Constr. Co., Waterloo, Iowa (14a)
 Olson & Appleby, New Bedford, Mass. (20b)
 Olson Constr. Co., Lincoln, Nebr. & Salt Lake City, Utah (26a) (43a)
 Olson, David A., Denver, Colo. (5a)
 Olson, F., Los Angeles, Calif. (4d)
 Olson, Jack C., Lorenzo, Idaho (11a)
 Olson, Russell, Constr. Co., Pendleton, Ore. (36a)
 Oltmans Constr. Co., Los Angeles, Calif. (4d)
 Olympian Dredging Company, San Francisco, Calif. (4b)
 Omaha Dredge & Dock Co., Omaha, Nebr. (26b)
 Oman Construction Company, Nashville, Tenn. (N)
 Oneal, C. E., Co., Inc., Ellensburg, Wash. (46c)
 Oneglia & Gervasini, Torrington, Conn. (31d)
 O'Neil-Anderson, Havre, Mont. (25b)
 O'Neil, C. R., North Powder, Ore. (36a)
 O'Neil Constr. Co., The Havre, Mont. (25a)
 O'Neil, W. E., Constr. Co., Chicago, Ill. (12a)
 Orders, W. R., St. Albans, W. Va. (47a)
 Oregon Asphaltic Paving Co., Portland, Ore. (36a)
 Orheim, I. E., Minot, N. Dak. (22a)
 O'Rourke Constr. Co., Houston, & Dallas, Texas (42a) (42d)
 O'Rourke, J. L., & Son, Dallas, Texas (42a)
 Orr, J. C., & Son, Altoona, Pa. (37a)
 Orr, John B., Inc., Miami, Fla. (9b)
 Orr & Orr Constr. Co., Phoenix, Ariz. (2a)
 Orshek, Francis R., Co., Fremont, Nebr. (26b)
 Ortman & Reitze, Meadville, Pa. (37a)
 Osberg Constr. Co., Seattle, Wash. (46a)
 Osborn Co., Pasadena, Calif. (4d)
 Osceola Constr. Co., Pensacola, Fla. (9d)
 Oser, Harry J., San Francisco, Calif. (4a)
 Osterling Constr. Co., Cherokee, Iowa (14b)
 Ostermann, Gus, & Sons, Ocheyedan, Iowa (14a)
 Ostrom Constr. Co., Indianapolis, Ind. (13b)
 Oswald Bros., Los Angeles, Calif. (4d)
 Ottaviano, A. E., Inc., Croton-on-Hudson, N. Y. (31d)
 Ottinger Bros., Oklahoma City, Okla. (35b)
 Otto, C. A., Marysville, Calif. (4a)
 Outdoor Display Co., Lewistown, Pa. (37a)
 Overaa, C., & Co., Inc., Richmond, Calif. (4a)
 Overland Sand & Gravel Co., Stromsburg, Nebr. (26b)

Owen-Ames-Kimball Co., Grand Rapids, Mich. (21b)
 Owen, Hubert M., Constr. Co., Inc., Jackson, Tenn. (41c)
 Owens, F. W., Co., Louisville, Ky. (16b)
 Owens, J. B., Tampa, Fla. (1a)
 Owens, J. Sam, Constr. Co., Longview, Texas (42n)
 Owens, T. Calvin, Washington, D. C. (8a)
 Owl Truck & Constr. Co., Compton, Calif. (4d)

P

 P & H Constr. Co., Oklahoma City, Okla. (35b)
 P. & W. Constr. Co., Inc., Atlanta, Ga. (10a)
 Pacific Bridge Co., San Francisco, Calif. (4b)
 Pacific Bldrs., Salinas, Calif. (4a)
 Pacific Const Bldrs., San Francisco, Calif. (4a)
 Pacific Constr. Co., Seattle, Wash. (46a)
 Pacific Construction Co., Ltd., Honolulu, T. H. (L)
 Pacific Contr. Corp., Long Beach, Calif. (4d)
 Pacific Crane & Rigging, Inc., Los Angeles, Calif. (4d)
 Pacific Pavements Co., Ltd., San Francisco, Calif. (4b)
 Pacific Pipeline Constr. Co., Montebello, Calif. (4d)
 Pacific Pipeline & Engrs., Ltd., San Francisco, Calif. & Denver, Colo. (4b) (42m) (5b)
 Pacific Sand & Gravel Co., Centralia, Wash. (46d)
 Packard Contr. Co., Phoenix, Ariz. (2a)
 Packtor, Edw., Co., Hartford, Conn. (6a)
 Padgett, John W., Fort Worth, Texas (42c)
 Pafford, Jas. M., Inc., Falmouth, Mass. (20b)
 Page Constr. Co., Boston, Mass. (20b)
 Page Corp. & T. M. Page, Monrovia, Calif. (4d)
 Page, Holland, Austin, Texas (42f)
 Pagenhart, C. C., Rochester, Minn. (22a)
 Paine-Gallucci, Inc., Tacoma, Wash. (46d)
 Paist, Chas. E., Perry, Iowa (14b)
 Palmberg, H. G., Astoria, Ore. (36a)
 Palmer, Lee C., Jacksonville, Fla. (9a)
 Palmetto Constr. Co., Inc., Columbia, S. C. (32a)
 Pangia Constr. Co., Atco, N. J. (29a)
 Panhandle Constr. Co., Lubbock, Texas (42f) (42j)
 Papin, J. C., Baker, Ore. (36a)
 Pappin Constr. Co., Great Falls, Mont. (25b)
 Paquette Constr. Co., Manchester, N. H. (28a)
 Parda, T. J., Pensacola, Fla. (9d)
 Parham Constr. Co., East St. Louis, Ill. (12c)
 Parham-Darr Constr. Co., High Point, N. C. (32a)
 Parish Bros., Benicia, Calif. (4b)
 Parisi Contr. Co., Inc., Corona, L. I., N. Y. (31d)
 Pariso Bros., Buffalo, N. Y. (31d)
 Park, Alden B., Clayton, Mo. (24c)
 Park Constr. Co., Minneapolis, Minn. (22a)
 Park, Paul, Co., Storm Lake, Iowa (14b)
 Parker Constr. Co., Harlingen, Texas (42o)

Parker, H. Earl, Inc., Marysville, Calif. (4b) (27a)
 Parker-Schram Co., Portland, Ore. (36a)
 Parker, W. J., Constr. Co., Omaha, Nebr. (40a)
 Parkhill Constr. Co., Washington, D. C. (8a)
 Parkhill-Wade, Los Angeles, Calif. (4d)
 Parkman Constr. Co., Inc., Boston, Mass. (20b)
 Parks, John, Co., Chattanooga, Tenn. (41a)
 Parks, T. U., Co., Chattanooga, Tenn. (41a)
 Park-Ward Co., Oklahoma City, Okla. (35b)
 Parlor City Constr. Co., Endicott, N. Y. (31d)
 Paroline, John B., Morgan Hill, Calif. (4b)
 Parrott, B. F., & Co., Inc., Roanoke, Va. (45a)
 Parson & Fife Constr. Co., Brigham City, Utah (43a)
 Parsons Constr. Co., Omaha, Nebr. (26a)
 Parsons, Ralph M., Co., The, Los Angeles, Calif. (4d)
 Paschall-Sanders Constr. Co., Fort Worth, Texas (42c)
 Paskett, F. R., McAllen, Texas (42o)
 Pasquale Constr. Co., Endicott, N. Y. (31d)
 Pate, J. F., Constr. Co., Mobile, Ala. (1a)
 Paterson Constr. Co., Inc., New Haven, Conn. (6a)
 Patricelli, John, Seattle, Wash. (46a)
 Patrick, S. V., Constr. Co., Albuquerque, N. Mex. (30b)
 Patterson, Dean, Constr. Co., Burlington, N. C. (32a)
 Patterson, Frank O., Monongahela, Pa. (37c)
 Patterson, Geo. R., Stockton, Calif. (4b)
 Patterson, W. H., & Co., Baton Rouge, La. (17c)
 Patti-MacDonald Constr. Co., St. Louis, Mo. (50a)
 Patti, S., Constr. Co., Inc., Kansas City, Mo. (24a)
 Patton-Tully Transportation Co., Memphis, Tenn. (23a)
 Paugh & Brown, Inc., Cleveland, Ohio (34c)
 Paul, Earl S., Ogden, Utah (43a)
 Paul, Ed., Birmingham, Ala. (1a)
 Paul, G. A., Birmingham, Ala. (1a)
 Paulsen Constr. Co., Salt Lake City, Utah (43a)
 Paulson, O. F., Constr. Co., Cedar Rapids, Iowa (14b)
 Paulus, Robt., Constr. Co., St. Louis, Mo. (24c)
 Pavement Planing Co., Los Angeles, Calif. (4d)
 Pavia Co., The, Verona, Pa. (37c)
 Payne Constr. Co., San Francisco, Calif. (4a)
 Payne, Dale, Phoenix, Ariz. (2a)
 Payne & Dolan, Inc., Chicago, Ill. (24b)
 Payne & Dolan of Wisconsin, Inc., Milwaukee, Wis. (21c)
 Payne, G. J., Los Angeles, Calif. (4d)
 Payne & Harris Constr. Co., Chattanooga, Tenn. (41a)
 Pearce, Frank S., Co., Rockford, Ill. (12b)
 Pearson Constr. Co., Inc., Benton Harbor, Mich. (21b)
 Peckel, B., & Sons, North Hollywood, Calif. (4d)
 Peck, C. L., Los Angeles, Calif. (4d)
 Peck & Udell Constr. Co., The, Cleveland, Ohio (34c)

- Peck, W. D., & Co., Inc., Houston, Texas (42d)
 Peckham Road Corp., White Plains, N. Y. (31d)
 Peden Constr. Co., Greenville, S. C. (32a)
 Pedersen Bros., Inc., Montevideo, Minn. (22a)
 Peira, U., & Son, San Francisco, Calif. (4b)
 Peirce Constr. Co., Toledo, Ohio (34d)
 Pellicione, D., & Co., Weirton, W. Va. (47a)
 Pelligreen Constr. Co., St. Louis, Mo. (24c)
 Pelphrey, W. O., Fort Worth, Texas (42f)
 Penepacker, Frank, Portland, Oreg. (36a)
 Penker, Constr. Co., The, Cincinnati, Ohio (34b)
 Pennell & Haigler Constr. Co., Lenoir, N. C. (32a)
 Penny, M. N., Lawrence, Kans. (15b)
 Penzel Constr. Co., Jackson, Mo. (24b)
 Perelli Contr. Co., Inc., Trenton, N. J. (29a)
 Perini, B., & Sons, Inc., Pittsburgh, Pa. (37c)
 Perkins-Barnes Constr. Co., Blackstone, Va. (45a)
 Perkins Bros., Portland, Oreg. (36a)
 Perkinson, Henry L., Constr. Co., St. Louis, Mo. (24b) (24c)
 Perlmuter, Abe, Constr. Co., Inc., Denver, Colo. (5a)
 Permanent Bldrs., Inc., Clarksburg, W. Va. (47a)
 Permanent Constr. Co., Chicago, Ill. (12a)
 Perrilliat-Rickey Constr. Co., Inc., New Orleans, & Baton Rouge, La. (17a) (17d)
 Perrin, J. Kennon, Co., Richmond, Va. (45a)
 Perry, Arthur F., Co., Jacksonville, Fla. (9a)
 Perry, B. F., Akron, Ohio (34a)
 Perry Constr. Co., Chicago, Ill. (12a)
 Perry, J. W., San Antonio, Texas (42f)
 Persun Constr. Co., Huntington, W. Va. (47a)
 Perusini Constr. Co., Homewood, Ala. (1a)
 Peters, A. J., & Son, San Jose, Calif. (4b)
 Peters Constr. Co., Milwaukee, Wis. (48a)
 Peters & Dehler, Tacoma, Wash. (46d)
 Peters, Paul C., Co., Toledo, Ohio (34b)
 Petersen, A. V., Co., Portland, Oreg. (36b)
 Petersen, Lawrence, Constr. Co., St. Paul, Minn. (22a)
 Petersen, N. A., Constr. Co., Austin, Minn. (22a)
 Petersen, Wm., Seattle, Wash. (46b)
 Peterson & Beckstrum, Bismarck, N. Dak. (22a)
 Peterson Bros., Laurens, Iowa (14a)
 Peterson, C. A., & Sons, Rock Rapids, Iowa (14b)
 Peterson, C. Norman, Berkeley, Calif. (4a)
 Peterson Constr. Co., Minneapolis, Minn. (22a)
 Peterson, E. H., & Son, Richmond, Calif. (4b)
 Peterson, Edward, Company, Omaha, Nebr. (N)
 Peterson, Etlin E., Casper, Wyo. (49a)
 Peterson, Geo. W., Los Angeles, Calif. (4d)
 Peterson, O. G., San Leandro, Calif. (4b)
 Petry, N. G., Constr. Co., Denver, Colo. (5a)
 Petsch, Walton H., Spokane, Wash. (46c)
 Pettyjohn, F. S., Alamosa, Colo. (5b)
 Pew, Arthur, Constr. Co., Atlanta, Ga. (10a)
 Pew, Chas. H., Missoula, Mont. (25b)
 Pfeiffer & Hohner, Spokane, Wash. (46c)
 Pfoetzer, E. & E. J., Washington, D. C. (8a)
 Pfitzenreuter, Henry, & Sons, Chicago, Ill. (12a)
 Phelps-Drake Co., Inc., Minneapolis, Minn. (22a)
 Phelps, Judson H., San Antonio, Texas (42e)
 Phelps-Wagner Bldrs., Battle Creek, Mich. (21b)
 Phend & Brown, Milford, Ind. (13a)
 Phillips, Alton V., Seattle, Wash. (46a)
 Phillips, C. S., Petaluma, Calif. (4a)
 Phillips Constr. Co., Lancaster, S. C. (32a)
 Phillips, John W., Corpus Christi, Texas (42i)
 Phillips & Lusk Constr. Co., Inc., Phoenix, Ariz. (2a)
 Phillips, W. R., Waco, Texas (42L)
 Phoenix-Tempe Stone Co., Phoenix, Ariz. (2a)
 Piazza, Leo F., Paving Co., San Jose, Calif. (4b)
 Pickard Constr. Co., Long Beach, Calif. (4d)
 Pickett & Nelson, Idaho Falls, Idaho (11a)
 Pickett, Harry, Allegan, Mich. (21c)
 Pickler, M. C., Constr. Co., Inc., Aberdeen, N. C. (32a)
 Piedmont Constr. Co., Inc., Winston-Salem, N. C. (32a)
 Pierson Constr. Co., Baton Rouge, La. (17e)
 Pierson Contr. Co., Saginaw, Mich. (21c)
 Pike & Hill, Diablo, Calif. (4a)
 Pine Flat Contrs., Sanger, Calif. (4b)
 Pinner, Arthur, Jr., Los Angeles, Calif. (2a)
 Pinnix, R. H., Gastonia, N. C. (32a)
 Piombo Constr. Co., San Francisco, Calif. (4b)
 Pioneer Constr. Corp., Las Vegas, Nev. (27b)
 Pioneer Constr., Inc., Tucson, Ariz. (2a)
 Pioneer Contr. Co., Memphis, Tenn. (23a)
 Pioneer Contract & Supply Co., Baton Rouge, La. (17d)
 Pipe Line Constr. & Drilling Co., Camp Hill, Pa. (42m)
 Pipe Line Constrs., Bakersfield, Calif. (4d)
 Piracci Constr. Co., Inc., Baltimore, Md. (19a)
 Pittsburgh-Des Moines Steel Co., Des Moines, Iowa & Pittsburgh, Pa. (14a) (37c)
 Pittsburgh Industrial Engr. Co., Pittsburgh, Pa. (37c)
 Plank, J. C., Houston, Texas (42d)
 Plate Constr. Co., Parkersburg, W. Va. (47a)
 Platoff Constr. Co., Louisville, Ky. (16b)
 Platt Contr. Co., Inc., East Cambridge, Mass. (20b)
 Platte Valley Constr. Co., Grand Island, Nebr. (26b)
 Player Realty & Constr. Co., Fayetteville, N. C. (32a)
 Plewe Constr. Co., Salt Lake City, Utah (43a)
 Plummer, J. Lee, Inc., Sewickley, Pa. (37c)
 Plymate, Clay, Co., Inc., Oklahoma City, Okla. (35b)
 Poe, T. W., & Sons, Durham, N. C. (32a)
 Pohl, Jos. L., Nevada, Mo. (24b)
 Pohlman & Wilbanks, Monroe, La. (17e)
 Poirier & McLane Corp., New York, N. Y. (29a)
 Poley-Abrams Corp., Brookline Village, Mass. (20b)
 Polino, Sam G., & Co., Elkins, W. Va. (47a)
 Pollock, Geo., Co., Sacramento, Calif. (4b) (4d)
 Polmur Constr. Co., Houston, Texas (42d)
 Pomeroy, J. H., & Co., Inc., San Francisco, Calif. (4b) (50a)
 Ponsford Bros., El Paso, Texas (1L)
 Popejoy, Glenn, Ulysses, Kans. (15b)
 Porath, Julius, & Son Co., Detroit, Mich. (21c)
 Port City Constr. Co., Inc., Lake Charles, La. (17c)
 Port Constr. Co., Port Angeles, Wash. (36a) (46a)
 Porter-DeWitt Constr. Co., Poplar Bluff, Mo. (23a) (24b)
 Porter, E. D., Midland, Texas (42i)
 Porter, Geo. S., Denver, Colo. (5a)
 Porter, Wm. H., Co., Watertown, Mass. (20b)
 Porterfield-Binger Constr. Co., Youngstown, Ohio (37c)
 Portland Tug & Barge Co., Portland, Oreg. (36a)
 Posthumus, Gerritt, Wayne, Mich. (21c)
 Poston Sand & Gravel, Lawton, Okla. (35b)
 Potashnick, R. B., Cape Girardeau, Mo. (12c) (23a) (24b) (42m)
 Potter-DeWitt Corp., Pavilion, N. Y., (31d)
 Potter-Horn, Inc., Boston, Mass. (20b)
 Potter, John W., Fort Worth, Texas (42c)
 Potter-Shackelford Constr. Co., Greenville, S. C. (32a)
 Potts & Callahan Constr. Co., Baltimore, Md. (19b)
 Pound, Murphey, Constr. Co., Columbus, Ga. (10a)
 Powell Bros., Inc., Ft. Lauderdale, Fla. (9b)
 Powell, E. C., Great Falls, Mont. (25a)
 Powell, L. D., Constr. Co., Memphis, Tenn. (41c)
 Power, Chas. A., Spokane, Wash. (46c)
 Powers, T. F., Constr. Co., Fargo, N. Dak. (22a)
 Powers-Thompson Constr. Co., Joliet, Ill. (12c) (13a)
 Pozzo Constr. Co., Ltd., Los Angeles, Calif. (4d)
 Prassel, Victor, San Antonio, Texas (42e)
 Price, Vido S., & Glenn Graham, Los Angeles, Calif. (4d)
 Prepakt Concrete Company, The, Cleveland, Ohio (N)
 Prescott Constr. Co., Inc., Washington, D. C. (8a)
 Price Constr. Co., Marshall, Texas (42n)
 Price, Fred H., Lansing, Mich. (21c)
 Price, H. C., Co., Bartlesville, Okla. (4d) (42m)
 Price, Lyle, Flagstaff, Ariz. (2a)
 Price & Price, Inc., Lafayette, Ind. (13b)
 Price, W. E., Constr. Co., Oklahoma City, Okla. (35a)
 Price, W. T., Dredg. Corp., Miami, Fla. (9b)
 Prichard & Son, Modesto, Calif. (4a)
 Prichard, Thos. J., Jr., Fresno, Calif. (4a)
 Priestner Constr. Co., Davenport, Iowa (14b)
 Princeville Stone Co., Princeville, Ill. (12c)
 Progressive Bldrs., Inc., Pennsauken, N. J. (N)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

Progressive Constr. Co., Inc., New Orleans, La. (17a)
 Proksch Constr. Co., Iron River, Mich. (21c)
 Propst Constr. Co., Inc., Concord, N. C. (32a)
 Provo Bros., Inc., Syracuse, N. Y. (31d)
 Psaty & Fuhrman, Inc., New York City (31c)
 Public Constr. Co., Denton, Texas (42f)
 Puget Sound Bridge & Dredg. Co., Seattle, Wash. (46a)
 Puget Sound Constr. Co., Tacoma, Wash. (46d)
 Pugh Constr. Corp., San Pedro, Calif. (4d)
 Purdy Constr. Co., The, Mansfield, Ohio (34d)
 Purington, O. D., Co., Inc., Providence, R. I. (38a)
 Purtell, Harold, Constr. Co., St. Paul, Minn. (22a)
 Purtyzer & Dutton, Norton, Kans. (15b)
 Putney, John H., Constr. Co., Oklahoma City, Okla. (35a)
 Pyle, J. E., Little Rock, Ark. (3a)

Q

Quad City Constr. Co., Inc., Rock Island, Ill. (12c)
 Queally Excavating & Wrecking Co., Ft. Dodge, Iowa (14a)
 Quick, W. J., New Iberia, La. (17f)
 Quinn & Conant, Los Angeles, Calif. (4d)
 Quinn Constr. Co., Kansas City, Mo. (24b)
 Quinn, E. L., Constr. Co., Gastonia, N. C. (32a)
 Quinn-Robbins Co., Inc., Boise, Idaho (11a)
 Quisile, Oscar, Fort Worth, Texas (42c)

R

R & M Constr. Co., Central Point, Oreg. (36a)
 R. & R. Constr. Co., Alton, Ill. (12d)
 Rabalais, E. E., & Son, Bunkie, La. (17f)
 Rademann-Giusto, San Francisco, Calif. (4a)
 Radich & Fergusson, Inc., Burbank, Calif. (4d)
 Radkovich, Wm., Co., Los Angeles, Calif. (4d)
 Rados, Steve P., Los Angeles, Calif. (4d)
 Radtke, Wm., & Son, Gilroy, Calif. (4b)
 Rafferty, John E., Jr., Inc., Philadelphia, Pa. (37d)
 Ragner-Benson, Inc., Pittsburgh, Pa. (37b)
 Ragner Bros., Pittsburgh, Pa. (37c)
 Rahn, John F., East Chicago, Ind. (13b)
 Railing, W. C., Woodland, Calif. (4b)
 Raines, J. A., Muskogee, Okla. (35b)
 Rainey, Walter M., Constr. Co., Houston, Texas (42d)
 Raisch, A. G., Co., San Rafael, Calif. (4b)
 Raisch, A. J., Paving Co., San Jose, Calif. (4b)
 Ralph & Horwitz, Portland, Oreg. (36b)
 Ramey-Mathis Constr. Co., Amarillo, Texas (42g)
 Ramliak, M., Los Angeles, Calif. (4d)
 Ramsey, A. A., & Son, Shelby, N. C. (32a)
 Ramsey, C. C., Waco, Texas (42L)
 Ramsey Constr. Co., Corvallis, Oreg. (36a)
 Rand Constr. Co., Bakersfield, Calif. (4d)
 Rand Constr. Co., Rapid City, S. Dak. (40a)
 Randall Bldg. Co., Amarillo, Texas (42g)

Rankin, D. W., Inc., Cleveland, Ohio (34c)
 Ranon & Jimenez, Tampa, Fla. (9c)
 Ransdell Constr. Co., Dallas, Texas (42a)
 Ransome Co., Emeryville, Calif. (4b)
 Rapid Transfer & Constr. Co., Atlanta, Ga. (10a)
 Rapp, Robt. M., Co., Santa Rosa, Calif. (4b)
 Rapp, Wm. D., Santa Rosa, Calif. (4b)
 Rappoli, Edmund J., Co., Inc., Cambridge, Mass. (20b)
 Ratcliff Bros. Constr. Co., Liberty, Texas (42b)
 Ratcliff, J. E., Alexandria, La. (17f)
 Rau Constr. Co., Kansas City, Mo. (24a)
 Rawlings, Wm. S., Co., Kansas City, Mo. (24a)
 Raymond, Ace S., Logan, Utah (43a)
 Raymond Concrete Pile Co., New York, N. Y.; Los Angeles, Oakland, & San Francisco, Calif.; Pittsburgh, & Philadelphia, Pa.; Washington, D. C.; Atlanta, Ga.; Baltimore, Md.; Boston, Mass.; Chicago, Ill.; Portland, Oreg.; Detroit, Mich.; Kansas City, & St. Louis, Mo.; Syracuse, N. Y.; Houston, Texas; Miami, Fla.; Cleveland, Ohio & Salt Lake City, Utah (N) (10a) (36a)
 Raymondville Constr. Co., Raymondville, Texas (42o)
 Rea Constr. Co., Charlotte, N. C. (32a)
 Rea, Wayne L., Corpus Christi, Texas (42j)
 Read, A. H., Co., Cheyenne, Wyo. (26b) (49a)
 Read Constr. Co., Inc., Cheyenne, Wyo. (49a) (5b)
 Read, Fred W., Twin Falls, Idaho (11a)
 Ready-Mix Concrete Co., Reno, Nev. (27a)
 Reagan, Wm. M., & Sons, Inc., Weaverville, N. C. (32a)
 Reason, Edw., Pittsburgh, Pa. (37c)
 Redding & Co., Inc., Baltimore, Md. (19a)
 Reddington, J. D., Indianapolis, Ind. (13b)
 Redmond Constr. Co., Kansas City, Mo. (24a)
 Red River Constr. Co., Shreveport, La. (42j)
 Reece Constr. Co., Scandia, Kans. (15b)
 Reed & Abbe, Inc., Asheville, N. C. (32a)
 Reed Constr. Corp., Miami Beach, Fla. (9b)
 Reed, Duffy, Constr. Co., Twin Falls, Idaho (11a)
 Reed, M. T., Constr. Co., Jackson, Miss. (23b)
 Reed & Martin, Inc., Fairbanks, Alaska (50a)
 Reese, Herbert, Greenbush, Minn. (22a)
 Reese, Morrison W., San Jose, Calif. (4a)
 Reeves, F. M., & Sons, Austin, Texas (42f)
 Reeves, J. R., Sacramento, Calif. (4b)
 Regan, C. T., Constr. Co., The, Cleveland, Ohio (34c)
 Regen, J. B., Nashville, Tenn. (41d)
 Regenhart Constr. Co., Cape Girardeau, Mo. (12c) (24b)
 Reich, Hugh D., Austin, Texas (42k)
 Reid, A. R., Co., San Francisco, Calif. (4b)
 Reid Contr. Co., Inc., Woodbridge, N. J. (20a)
 Reid, R. J., Contr. Co., Birmingham, Ala. (23a)
 Reiff, Daniel L., Norristown, Pa. (37d)
 Reilly, Michael H., New Orleans, La. (17a)
 Reimer, C. F., Constr. Co., Inc., Marshalltown, Iowa (14b)
 Reimers & Jolivet, Portland, Oreg. (36b)
 Reindollar, I., & Son, York, Pa. (37a)

Reinecke-Tarlton, Inc., Fayetteville, N. C. (32a)
 Reinhardt Bros., Russell, Kans. (15b)
 Reis, A. F., Topeka, Kans. (15b)
 Reisinger, Robt. L., & Co., Milwaukee, Wis. (48a)
 Reliance Truck Co., Phoenix, Ariz. (2a)
 Remmet Constr. Co., Palo Alto, Calif. (4d)
 Rendle, Jas. B., Co., Malden, Mass. (20a)
 Rendle, Roy B., & Co., Inc., East Boston, Mass. (20a)
 Reniger Constr. Co., Lansing, Mich. (N) (21b)
 Reno Constr. Co., Overland Park, Kans. (15b) (24b)
 Rentenbach & Wright, Inc., Kingsport, Tenn. (41e)
 Rentlor Co., Inc., Grand Island, Nebr. (26b)
 Renz, Geo. C., Gilroy, Calif. (4b)
 Replogle, C. F., Circleville, Ohio (34d)
 Repp & Mundt, Inc., Columbus, Ind. (13b)
 Rexroad, L. W., & Son, Salina, Kans. (15b)
 Rexroth & Rexroth, Bakersfield, Calif. (4d)
 Reynolds Constr. Co., Springfield, Utah (43a)
 Reynolds, D. H., Inc., Coral Gables, Fla. (9b)
 Reynolds, H. H., Beaumont, Texas (42h)
 Reynolds, Roland T., Anaheim, Calif. (4d)
 Reynolds & Walker, Inc., Twin Falls, Idaho (11a)
 Reynolds & Williams, Little Rock, Ark. & Shreveport, La. (3a) (17e)
 Rheiner, A. E., & Co., San Antonio, Texas (42e)
 Rheiner, D. J., Constr. Co., San Antonio, Texas (42e)
 Rheinwein Constr. Co., Inc., New York City (31c)
 Rhoades Bros. & Shofner, Los Angeles, Calif. (4d)
 Rhoades Constr. Co., Inc., Newton, Kans. (15b)
 Rice Bros., Inc., Marysville, Calif. (4b) (4d)
 Rice, Jos. N., Inc., New Haven, Conn. (6a)
 Richards, Gene, Inc., Fresno, Calif. (4b)
 Richardson Constr. Co., Inc., Cincinnati, Ohio (34b)
 Richardson, Lou, Miles City, Mont. (40a) (25a)
 Richter Bros., Oroville, Calif. (4b)
 Richter Transfer Co., Cincinnati, Ohio (34b)
 Rickey, Horace B., Inc., Lafayette, La. (17f)
 Ricks, J. E., Constr. Co., Austin, Texas (42k)
 Rider Constr. Co., Charleroi, Pa. (37c)
 Riddlehuber & Co., Inc., Greenwood, S. C. (32a)
 Riedesel Constr. Co., Billings, Mont. (25a) (25b)
 Riegel, A. V., Inc., White Plains, N. Y. (31d)
 Riess, John, New Orleans, La. (17a)
 Rieth-Riley Constr. Co., Goshen, Ind. (13a) (21c)
 Rife, A. J., Constr. Co., Dallas, Texas (42a)
 Riffe, David T., Inc., Pittsburgh, Pa. (37b)
 Riggle & Creighton, Yakima, Wash. (46a)
 Riha Constr. Co., San Diego, Calif. (4c)
 Riley, Wm. A., Paving & Constr. Co., Inc., St. Louis, Mo. (24c)
 Rinderknecht, R. W., Co., Cedar Rapids, Iowa (14b)
 Riney, L. W., Constr. Co., Hannibal, Mo. (24b)
 Ringland-Johnson, Inc., Des Moines, Iowa (14b)

- Ringwald, W. H., & Sons Co., Chillicothe, Ohio (34d)
- Rinner, Geo., Topeka, Kans. (15a)
- Risk Pipe & Constr. Co., Nebraska City, Nebr. (26b)
- Ritchie, A., Co., Walla Walla, Wash. (46c)
- Ritchie Bros. Constr. Co., Wichita, Kans. (15b)
- Ritchie, Walter L., Malden, Mass. (20b)
- Ritter Bros., Harrisburg, Pa. (37a)
- Rives Constr. Co., Birmingham, Ala. (1a)
- Roach, Constr. Co., Albuquerque, N. Mex. (30b)
- Road Constr. Co. of Westfield, Westfield, N. J. (29a)
- Robbins, John A., Co., Inc., Philadelphia, Pa. (37d)
- Roberts Bros., Chariton, Iowa (14a)
- Roberts Constr. Co., Lincoln, Nebr. (26b)
- Roberts Constr. Co., Seattle, Wash. (46a)
- Roberts, J. B., Houston, Texas (42k)
- Roberts, Jack A., Birmingham, Ala. (1a)
- Roberts, Jas. A., Houston, Texas (42d)
- Roberts, John H. C., Reno, Nev. (27a)
- Roberts & Long, Mobile, Ala. (1a)
- Roberts, Lyle, Inc., Coral Gables, Fla. (9b)
- Roberts, S. S., Constr. Co., Rapid City, S. Dak. (40a)
- Robertson, Alex. Co., Paramount, Calif. (4d)
- Robertson, H. W., Inc., Sacramento, Calif. (4a)
- Robertson, Hay & Wallace, Portland, Ore. (36b)
- Robertson-Henry Co., Huntington, W. Va. (47a)
- Robertson, W. E., & Co., Los Angeles, Calif. (4d)
- Robie Constr. Co., Inc., Manchester, N. H. (28a)
- Robinson Bros. Contrs., Inc., Asheville, N. C. (32a)
- Robison Constr. Co., Pittsburgh, Pa. (37b)
- Robson, R. M., Portland, Ore. (36b)
- Rocho, Edw. M., Constr. Co., Freeport, Ill. (12c)
- Rock City Constr. Co., Nashville, Tenn. (41d)
- Rockford Black Top Constr. Co., Rockford, Ill. (12c)
- Rock Hill Asphalt & Constr. Co., Clayton, Mo. (24b)
- Rock Road Constr. Co., Chicago, Ill. (13a)
- Roden Constr. Co., Fort Worth, Texas (42c)
- Rodgers, H. N., & Sons Co., Memphis, Tenn. (23a)
- Roediger Constr., Inc., Cleveland, Ohio (34c)
- Roehl Constr. Co., Knoxville, Tenn. (41b)
- Roehm Bros., Inc., Terre Haute, Ind. (13b)
- Roel Constr. Co., Fargo, N. Dak. (22a)
- Rogers, Chas. J., Inc., Detroit, Mich. (21a)
- Rogers, Chas. J., Inc., Detroit, Mich. (21c)
- Rogers Constr. Co., Smithfield, N. C. (32a)
- Rogers Constr. Co., Portland, Ore. (36a)
- Rogers-DeVaun, Inc., Wilmington, N. C. (32a)
- Rogers, H. A., & Sons, Lebo, Kans. (15b)
- Rogers, Howard E., Knoxville, Tenn. (41b)
- Rogers, Ira, Topeka, Kans. (15b)
- Rogers, Jos. W., Succasunna, N. J. (29a)
- Rogers Materials Co., Madera, Calif. (4b)
- Rogers, Platt, Inc., Denver, & Pueblo, Colo. (5a) (5b)
- Rohleder, Chas. F., Philadelphia, Pa. (37d)
- Roland Constr. Co., Alexandria, La. (17e)
- Rolandi & Sutton, San Francisco, Calif. (4b)
- Romano, Toney, Co., Seattle, Wash. (46a)
- Romero & Theall, Youngsville, La. (17f)
- Rommel, Geo. H., Co., Louisville, Ky. (16b)
- Romney, G. Maurice, Salt Lake City, Utah (43a)
- Rooney, Frank J., Inc., Miami, Fla. (9b)
- Rorick Constr. Co., Omaha, Nebr. (26a)
- Roscoe, W. P., Co., Billings, Mont. (49a)
- Rose, D. J., & Son, Rocky Mount, N. C. (32a)
- Rosengarten & Co., Philadelphia, Pa. (37d)
- Rosengarten, Howard D., Philadelphia, Pa. (37d)
- Rosewall, T. H., Watsonville, Calif. (4a)
- Ross, J. A., & Co., Chicago, Ill. (12c)
- Ross, Jas., Assos., Inc., Concord, N. H. (28a)
- Ross, Matthew S., Los Angeles, Calif. (4d)
- Ross Sand & Gravel Co., Concordia, Kans. (15b)
- Roth-Schenker Corp., The, New York, N. Y. (21b)
- Rottmayer Constr. Co., Akron, Ohio (34a)
- Rounds, Chas. J., Los Angeles, Calif. (4d)
- Rounds, Dean R., Rapid City, S. Dak. (40a)
- Rouse, R. N., & Co., Goldsboro, N. C. (32a)
- Rousseau, Oliver M., Co., Mill Valley, Calif. (4a)
- Rowe, Dan, Marshall, Minn. (22a)
- Rowley Constr. Co., Pawtucket, R. I. (38a)
- Rowley, Fred C., & Sons, Inc., Hammond, Ind. (13b)
- Royden, H. L., Phoenix, Ariz. (2a)
- Roystone, John F., Co., Inc., Arlington, Va. (8a)
- Ruby Constr. Co., Madisonville, Ky. (L)
- Ruby, H. W., Sacramento, Calif. (4b)
- Ruby, M. E., San Marcos, Texas (42f)
- Ruckman-Hansen, Inc., Fort Wayne, Ind. (13a)
- Ruddy, Bart J., Inc., Utica, N. Y. (L)
- Ruddy, M. J., & Son, Modesto, Calif. (4b)
- Rue Constr. Co., Bismarck, N. Dak. (40a)
- Ruebel, S. A., & Co., Cincinnati, Ohio (34b)
- Rueth, Leo, & Sons, Inc., Hammond, Ind. (13b)
- Ruff Constr. Co., Tacoma, Wash. (46d)
- Ruff, John K., Co., Baltimore, Md. (19a)
- Rule, C. F., Constr. Co., Nashville, Tenn. (41d)
- Rumsey Bros. Pipe Line Constr. Co., Wichita, Kans. (42m)
- Rumsey & Co., Seattle, Wash. (46a)
- Rundell, Frank R., Austin, Texas (42k)
- Runels, R. E., Constr. Co., Lowell, Mass. (20b)
- Rupert Constr. Co., Wilmington, Del. (7a)
- Rupp, A. L. & R. J., Kittanning, Pa. (37c)
- Ruscon Constr. Co., Charleston, S. C. (32a)
- Rush Constr. Co., Enterprise, Ore. (36a)
- Rushlight Automatic Sprinkler Co., Portland, Ore. (36a)
- Russell-Gillett Co., Cle Elum, Wash. (46a)
- Russell, T. Edgie, Co., Frederick, Md. (19b)
- Rust Constr. Corp., Evansville, Ind. (13b)
- Rust Engineering Co., The, Pittsburgh, Pa.; Washington, D. C.; New York, N. Y. & Birmingham, Ala. (N)
- Rutherford, Geo. A., Co., The, Cleveland, Ohio (34c)
- Rutherford, Geo. A., Jr., Albuquerque, N. Mex. (30b)
- Ryan Constr. Co., Kermit, Texas (30b)
- Ryan Constr. Corp., Evansville, Ind. (13a)
- Ryan Constr. Corp., New York City (31c)
- Ryan, J. H., Albuquerque, N. Mex. (30a)
- Ryan, J. T., Oelwein, Iowa (14a)
- Ryan-Richards Co., Oklahoma City, Okla. (35b)
- Ryan & Ryan, Inc., Washington, Ind. (13a)
- Rymont Corp., Chicago, Ill. (12a)
- S & B Constr. Co., Coral Gables, Fla. (9b)
- S & F Constr. Co., Yardley, Wash. (46c)
- S. M. H. Constr. Co., Peoria, Ill. (12c)
- S & W Constr. Co., Memphis, Tenn. (41c)
- S & W Constr. Co., Inc., Las Cruces, N. Mex. (30b)
- Sablain, Ray, Lansing, Mich. (21c)
- Sachs & Kaufman, Detroit, Mich. (21c)
- Sackett, Allen E., Hood River, Ore. (36a)
- Saenger, C. Geo., University City, Mo. (24c)
- Saigh, N. A., Co., Inc., San Antonio, Texas (42m)
- Saine Co., Orlando, Fla. (9c)
- St. Louis Steel Erection Co., St. Louis, Mo. (24c)
- Salem Sand & Gravel Co., Salem, Ore. (36a)
- Saliba, N. M., Co., Los Angeles, Calif. (4d)
- Salina Constr. & Supply Co., Inc., Syracuse, N. Y. (31d)
- Salley, W. C., Monroe, La. (17g)
- Salmon Bros., Inc., Netcong, N. J. (29a)
- Salmond, Scrimshaw Constr. Co., Arlington, N. J. (L)
- Samuel, B. H., & Sons, Portland, Ore. (36a)
- Sanctis Constr., Inc., Pittsburgh, Pa. (37c)
- Sandel, C. C., Shreveport, La. (17b)
- Sanders, Marthame, & Co., Atlanta, Ga. (10a)
- Sandford, N. Ralph, Hoisington, Kans. (15b)
- Sandstrom & Hafner, Duluth, Minn. (22a)
- Sanford, W. H., Corp., Terre Haute, Ind. (13b)
- Sangamo Constr. Co., Springfield, Ill. (12c)
- Sani Constr. Co., Des Moines, Iowa (14a)
- Sanki Bros., Inc., Springfield, Ill. (12c)
- Sanneman Bros. Constr. Co., Topeka, Kans. (42i)
- San-Ore Constr. Co., McPherson, Kans. (15b)
- San Xavier Rock & Sand Co., Tucson, Ariz. (2a)
- Sapp, J. Hilbert, Inc., West Palm Beach, Fla. (9e)
- Sappah, M., & Sons, Inc., Montvale, N. J. (29a)
- Sargent, B. H., West Branch, Mich. (21c)
- Sargent Constr. Co., Saginaw, Mich. (21c)
- Sargent Excavating Co., Inc., Topeka, Kans. (15b)
- Sargl, G., Beaumont, Texas (42h)
- Sartorio, Peter, San Francisco, Calif. (4a)
- Sather & Sons, Spokane, Wash. (46c)
- Sauers Constr. Co., Inc., St. Paul, Minn. (22a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Sauter, Godfrey, Philadelphia, Pa. (37d)
 Savin, A. I., Constr. Co., East Hartford, Conn. (31d)
 Sawallisch Constr. Co., El Reno, Okla. (35b)
 Sawyer Constr. Co., Boston, Mass. (20b)
 Sawyer, Paul, Sand & Gravel Co., Holdrege, Nebr. (26b)
 Sawyer-Wells Constr. Co., Houston, Texas (42d)
 Saxton, A. H., & Sons, Corvallis, Oreg. (36a)
 Scalzo, Thos., Co., Seattle, Wash. (46a)
 Scandrol Constr. Co., Rockford, Ill. (12b)
 Schader, A. D., San Francisco, Calif. (4b)
 Schaefer, Henry R., Co., Davenport, Iowa (14b)
 Scheirer, Wilbur C., Frankfort, Ind. (13a)
 Schell, Fred W., San Francisco, Calif. (4a)
 Schenck, R. E., Co., Indianapolis, Ind. (13b)
 Schenkel, Wm. P., & Sons, Fort Wayne, Ind. (13b)
 Scherrer, Dan, Constr. Co., Kansas City, Kans. (15b)
 Scheumann & Johnson, Seattle, Wash. (46a)
 Schickli, J. U., & Bros., Louisville, Ky. (16b)
 Schilling, G. E., Engr. & Constr. Co., Inc., Reno, Nev. (27a)
 Schirmer-Peterson Co., The, Cleveland, Ohio (34c)
 Schirmer-Schneider Co., The, Cleveland, Ohio (34c)
 Schloss, Wm. L., Asphalt Paving Co., Cleveland, Ohio (34c)
 Schmeling, E. W., & Sons, Inc., Rockford, Ill. (12b)
 Schmidt Bros., Long Beach, Calif. (4d)
 Schmidt Constr. Co., Grand Junction, Colo. (5b)
 Schmidt Constr. Co., Winfield, Iowa (14a)
 Schmidt, Leo W., Co., Cleveland, Ohio (34c)
 Schmidt, Oscar H., Inc., Topeka, Kans. (15b)
 Schmitt, H., & Son, Inc., Milwaukee, Wis. (48a)
 Schneider, Al J., Co., Shively, Ky. (16b)
 Schneider Constr. Co., Inc., Houston, Texas (42d)
 Schneider, H. W., Parkersburg, W. Va. (47a)
 Schnuerle, A. W., Aberdeen, S. Dak. (40a)
 Schoolnick, Louis, Constr. Co., Hartford, Conn. (6a)
 Schroeder & Co., Inc., Roscoe, Calif. (4d)
 Schroeder, H. F., & Sons, Arcadia, Iowa (14a)
 Schroeder, Paul, Faribault, Minn. (22a)
 Schulken & Butts, Inc., Monterey, Calif. (4b)
 Schumacher, Herman, Hull, Iowa (14b)
 Schumacher, Peter, & Sons, Inc., Mishawaka, Ind. (13b)
 Schuman Constr. Co., Kohler, Wis. (48b)
 Schutt, R. L., Co., Indianapolis, Ind. (13a)
 Schwab, P. Earl, Winona, Minn. (22a)
 Schwaderer, E. B., & Co., Cass City, Mich. (21c)
 Schwalbe, F. R., & Son, La Crosse, Wis. (48b)
 Schwartz Bros. & Co., Inc., Cincinnati, Ohio (34b)
 Schwartz, David, Russell, Kans. (15b)
 Schwartz, G., & Co., Rochester, Minn. (22a)
 Schweiger Constr. Co., Kansas City, Mo. (24a)
 Schweitzer, Adrian L., Osborne, Kans. (15b)
 Schwertner, Chas. H., & Son, Philadelphia, Pa. (37d)
 Schwoppe Bros., San Antonio, Texas (42f)
 Schworm, Ivan W., Grawn, Mich. (21c)
 Schye & Sullivan, White Sulphur Springs, Mont. (25a)
 Scothorn Constr. Co., Cherokee, Iowa (14a)
 Scott Constr. Co., Thomasville, Ga. (10a)
 Scott, F. L., & Son, San Antonio, Texas (42e)
 Scott, R. P., Contr. Co., Chattanooga, Tenn. (41a)
 Scott, W. H., Inc., Franklin, Va. (45a)
 Scroggin, J. C., Constr. Co., Nashville, Tenn. (41d)
 Scruferi Constr. Co., Inc., Niagara Falls, N. Y. (31a)
 Scullen, S. A., Waterford, N. Y. (31d)
 Sculley, C. F., Constr. Co., St. Paul, Minn. (22a)
 Scully Bros., Cincinnati, Ohio (34b)
 Seaboard Constr. Co., Chelsea, Mass. (20a)
 Seabright Constr. Co., Wheeling, W. Va. (47a)
 Seaman, Geo. M., & Co., Pittsburgh, Pa. (37b)
 Sears, M. J., Denver, Colo. (5b)
 Seastrunk, F. J., Elec. Co., Inc., Columbia, S. C. (32a)
 Seattle Contr. Co., Seattle, Wash. (46a)
 Secor Bldg. Co., Inc., Oklahoma City, Okla. (35a)
 Security Bldg. Co., Inc., Rockford, Ill. (12b)
 Seelye, Inc., Seattle, Wash. (46b)
 Seiple, Stanford C., Sunbury, Pa. (37a)
 Selander, Edw., Denver, Colo. (5b)
 Sellen, John H., Constr. Co., Seattle, Wash. (46b)
 Selley, D. R., Nashville, Tenn. (41d)
 Selmer Co., The, Green Bay, Wis. (48b)
 Selzer-Ornst Co., Milwaukee, Wis. (48a)
 Semands, Martin B., Conroe, Texas (42d)
 Senior and Palmer, Inc., New York, N. Y. (L) (29a)
 Serafini Constr. Co., Inc., Binghamton, N. Y. (31d)
 Serodino, V. P., Inc., Cincinnati, Ohio (13a)
 Service Constr. Co., Indianapolis, Ind. (13b)
 Sessinghaus & Ostergaard, Inc., Erie, Pa. (37a)
 Seth Lumber Co., Inc., Lincoln, N. C. (32a)
 Settecasi & Chillura, Tampa, Fla. (9c)
 Settergren, E. E., Portland, Oreg. (36b)
 Setzer Constr. Co., Inc., Hickory, N. C. (32a)
 Severinsen, Hans, Hollister, Calif. (4a)
 Seward & Shurtleff, Fort Worth, Texas (42c)
 Shackelford, O. L., Kinston, N. C. (32a)
 Shaffer, Leonard, Co., Philadelphia, Pa. (37d)
 Shandles, H. M., Philadelphia, Pa. (37d)
 Shanks, A. J., Constr. Co., Watseka, Ill. (12c)
 Shannon, Chas., Co., Butte, Mont. (25a)
 Shappert Engr. Co., Belvidere, Ill. (12c)
 Sharp & Fellows Constr. Co., Los Angeles, Calif. (4d) (30a)
 Sharp, Otis W., & Son, Inc., New Orleans, La. (17a)
 Sharpe & Bickerstaff Contrs., Inc., Atlanta, Ga. (10a)
 Sharpe, W. L., Contr. Co., Memphis, Tenn. (41c)
 Sharrock, J. A., & Sons, Marshall, Texas (42n)
 Sharrock & Pursel, Casper, Wyo. (49a)
 Shattuck, L. H., Inc., Manchester, N. H. (28a)
 Shaw Constr. Co., Texarkana, Ark. (3a)
 Shaw, Donald F., Los Angeles, Calif. (4d)
 Shaw, M. E., Contr. Co., Macon, Ga. (10a)
 Shaw, N. F., Inc., Anchorage, Alaska (50a)
 Shea Co., The, Alhambra, Calif. (4d)
 Shears, J. H., Sons, Hutchinson, Kans. (15b)
 Sheehan Constr. Co., Indianapolis, Ind. (13a)
 Sheehan Pipe Line Constr. Co., Tulsa, Okla. (42m)
 Sheets, Frank, Kansas City, Mo. (24b)
 Sheets, W. A., & Sons, Inc., Fort Wayne, Ind. (13b)
 Shelby Constr. Co., Inc., Shelbyville, Ind. (13b)
 Shelby Constr. Co., Inc., St. Louis, Mo. (24c)
 Shelby, Peter P., Los Angeles, Calif. (4d)
 Sheldon & Glissen, Inc., West Palm Beach, Fla. (9e)
 Shelgren, Roy A., St. Paul, Minn. (22a)
 Shelton Mill & Constr. Co., Las Vegas, Nev. (27b)
 Shelton, W. C., Co., The, Lawton, Okla. (35a)
 Shenk, Henry, Co., Erie, Pa. (37a)
 Sherman Machine & Iron Works, Oklahoma City, Okla. (42j)
 Sherry-Richards Co., Chicago, Ill. (12a)
 Sherwood, A. G., Constr. Co., Independence, Kans. (15b)
 Sherwood Constr. Co., Wichita, Kans. (15b)
 Shingledecker, H. C., Pontiac, Mich. (21c)
 Shipp, C. H., Constr. Co., Durham, N. C. (32a)
 Shirey, C. W., Waterloo, Iowa (14a)
 Shirley Constr. Co., Omaha, Nebr. (14a)
 Shirley-Herman Co., Inc., Buffalo, N. Y. (31a)
 Shockley, C. G., Constr. Co., Columbia, S. C. (32a)
 Shoemaker, R. M., Philadelphia, Pa. (37d)
 Shook, Chas. H., Dayton, Ohio (34b)
 Short, Harry E., Tile Co., Denver, Colo. (5a)
 Shotwell, J. D., Tacoma, Wash. (46d)
 Showalter, F. L., Inc., Lynchburg, Va. (32a)
 Shrum, Clyde M., Clarksburg, W. Va. (47a)
 Shuck, E. F., Seattle, Wash. (46b)
 Shuper, M. E., Co., Stockton, Calif. (4b)
 Shuttle, A., & Co., Inc., Fairmont, W. Va. (47a)
 Siderits Constr. Co., Milwaukee, Wis. (48a)
 Siegfried, Jos. E., Lafayette, Ind. (13b)
 Siesel Constr. Co., Milwaukee, Wis. & Pittsburgh, Pa. (37b) (48a)
 Silva & Hill Constr. Co., Los Angeles, Calif. (4d)
 Silver, E. M., Albuquerque, N. Mex. (30a)
 Silver State Constr. Co., Inc., Fallon, Nev. (27a)
 Simmons, J. L., Company, Inc., Decatur, Ill. & Indianapolis, Ind. (L) (13b)
 Simon, W. A., Inc., Wilmington, N. C. (32a)
 Simonds, E. T., Constr. Co., Carbondale, Ill. (12c)
 Simpson, Wm. A., Constr. Co., The, Los Angeles, Calif. (4d)
 Sinclair, John M., Providence, R. I. (38a)
 Singleton, Neill, Amarillo, Texas (42g)
 Sinnock, Pomeroy, Stockton, Calif. (4b)
 Sioux Falls Construction Company, Sioux Falls, S. Dak. (L)
 Siple, Edw. R., Co., Los Angeles, Calif. (4d)
 Sira, Ben, & Co., Dallas, Texas (42f) (42j)

- Siri, Arthur B., Inc., Santa Rosa, Calif. (4b)
 Sjoberg, N. H., & Son, Oakland, Calif. (4a)
 Sjooben Bros., Olympia, Wash. (46d)
 Sjostrom & Sons, Inc., Rockford, Ill. (12b)
 Skelton, Ray W., Co., Inc., Minneapolis, Minn. (22a)
 Skilton Engr. & Constr. Corp., Louisville, Ky. (16b)
 Skinker & Garrett, Washington, D. C. (8a)
 Skinner, A. M., Co., Morocco, Ind. (13a)
 Skinner, Dean, Austin, Texas (42f)
 Skinner, M. L., New Bern, N. C. (32a)
 Skinner & Ruddock, Inc., Charleston, S. C. (32a)
 Skousen, D. D., Albuquerque, N. Mex. (30a)
 Skousen-Hise Constr. Co., Albuquerque, N. Mex. (30a)
 Skousen, J. E., Mesa, Ariz. (2a)
 Skousen, W. R., Mesa, Ariz. (2a)
 Skrainka Constr. Co., University City, Mo. (24c)
 Slate, W. A., Seattle, Wash. (46b)
 Slatmyer, Henry G., & Son Constr. Co., The, Cleveland, Ohio (34c)
 Sletten Constr. Co., Great Falls, Mont. (25b)
 Sloan Constr. Co., Inc., Greenville, S. C. (32a)
 Slotnick, M., Corp., Boston, Mass. (20b)
 Slotnick, J., Co., Boston, Mass. (20b)
 Slovak Bros., Corpus Christi, Texas (42i)
 Small, Jas. H., & Co., Jacksonville, Fla. (9a)
 Small, M. M., Topeka, Kans. (15b)
 Smalley, D. R., & Sons, Inc., Celina, Ohio (13a)
 Smalling's, R. H., Sons, Macon, Ga. (10a)
 Smallman, Ralph A., & Co., Birmingham, Ala. (1a)
 Smiley, A. F., Constr. Co., Pawtucket, R. I. (38a)
 Smith, A. W., & Son, Fort Madison, Iowa (14b)
 Smith, Albert L., Fort Worth, Texas (42c)
 Smith & Anderson, Fairbanks, Alaska (50a)
 Smith, Ben F., Co., Pasadena, Calif. (4d)
 Smith, Brantley P., Co., Jackson, Tenn. (41c)
 Smith Bros., Noble, Okla. (35b)
 Smith Bros. Contrs., Leavenworth, Kans. (15a)
 Smith Bros. General Contrs., Inc., Vancouver, Wash. (36a)
 Smith Bldg. Co., Inc., Waco, Texas (42L)
 Smith & Buzby, Philadelphia, Pa. (37d)
 Smith, C. T., & Son, Lenoir, N. C. (32a)
 Smith, Chas. D., & Son, Inc., Fond du Lac, Wis. (48b)
 Smith, Chas. M., Thermopolis, Wyo. (49a)
 Smith Constr. Co., Albany, Ga. (10a)
 Smith Constr. Co., Evansville, Ind. (13b)
 Smith Constr. Co., Inc., Derby, Conn. (6a)
 Smith Contr. Corp., Fort Worth, Texas (42m)
 Smith-Cooke Constr. Co., St. Louis, Mo. (24c)
 Smith, DeCorse & Christhilf, Baltimore, Md. (19a)
 Smith, Ed., Engr. & Constr. Co., Syracuse, N. Y. (31d)
 Smith, Enoch, Sons Co., Salt Lake City, Utah (43a)
 Smith, Frank W., Constr. Co., San Mateo, Calif. (4b)
 Smith, Gerald, Constr. Co., Memphis, Tenn. (23a)
 Smith, H. C., Co., Los Angeles, Calif. (4d)
 Smith, Harold, St. Helena, Calif. (4b)
 Smith, Howard L., Cleveland, Ohio (34c)
 Smith, Ivy H., Co., Jacksonville, Fla. (9a)
 Smith, Jas. S., Co., Inc., Newton, Mass. (20b)
 Smith, John V., & Co., Hazelhurst, Ga. (10a)
 Smith & Johnson, Inc., Indianapolis, Ind. (13a)
 Smith, L. C., San Mateo, Calif. (4b)
 Smith, Linwood, Lake Village, Ark. (3a)
 Smith, Luke E., Denver, Colo. (5b)
 Smith, Noland, Constr. Co., El Reno, Okla. (35b)
 Smith, Paul, Constr. Co., Tampa, Fla. (9c)
 Smith, R. B., Houston, Texas (42f)
 Smith, R. McDonald, Jacksonville, Fla. (9a)
 Smith, R. T., Atlanta, Ga. (10a)
 Smith, Ray L., & Son, Inc., El Dorado, Kans. (42m)
 Smith, Reginald E., Harlingen, Texas (42o)
 Smith, Robt. H., & Co., Inc., Houston, Texas (42d)
 Smith, Roger, Waco, Texas (42j)
 Smith, W. C., Inc., Portland, Oreg. (36a)
 Smith, W. C., of California, Inc., Long Beach, Calif. (4d)
 Smith, W. R., & Son, Nashville, Tenn. (41d)
 Smith, Wm. A., Constr. Co., Inc., Houston, Texas (42d)
 Smith, Wm. A., Contr. Co., Inc., Kansas City, Kans. (15b)
 Smith, Wm. A., Contr. Co. of California, Oakland, Calif. (4b)
 Smolark, J. A., Ft. Washington, Pa. (37d)
 Smyth, Norman A., Co., Charlotte, N. C. (32a)
 Snead, E. B., Constr. Co., Austin, Texas (42k)
 Sneed's, Z. A., Sons, Wilmington, N. C. (32a)
 Snider, W. C., Danville, Ky. (16a)
 Snyder, Chas. B., Great Falls, Mont. (25a)
 Snyder Constr. Co., Ft. Lauderdale, Fla. (9b)
 Snyder Constr. Co., Inc., Vincennes, Ind. (13b)
 Snyder, J. W., Co., Chicago, Ill. (12a)
 Snyder, Lawrence J., Corp., Muncie, Ind. (13b)
 Soderberg, A. W., Constr. & Bldg. Co., Wichita, Kans. (15a)
 Soller, John, Constr. Co., Davenport, Iowa (14b)
 Sollitt Constr. Co., Inc., South Bend, Ind. (13b)
 Sollitt, Geo., Constr. Co., Chicago, Ill. (12a)
 Solomon, David, Inc., Washington, D. C. (8a)
 Somers, F. L., Klamath Falls, Oreg. (36a)
 Somerville Constr. Co., Ada, Mich. (42m)
 Sommer, I. M., & Co., San Francisco, Calif. (4a)
 Songgroth Bros., Mountain View, Calif. (4b)
 Sooner Constr., Muskogee, Okla. (35b)
 Sordoni Constr. Co., Inc., Wilkes-Barre, Pa. (37a)
 Sorensen Bros., Inc., Albert Lea, Minn. (22a)
 Sorensen-Gross Constr. Co., Flint, Mich. (21b)
 Sorensen, Peter, Redwood City, Calif. (4b)
 Sorenson, J. C., Trent, S. Dak. (40a)
 Sorenson, P. C., & Co., Inc., Dallas, Texas (42j)
 Sothman Constr. Co., Grand Island, Nebr. (26a)
 Soule Constr. Co., Pensacola, Fla. (9d)
 Soule, Henry M., Co., Pawtucket, R. I. (38a)
 Soule, O. L., Portland, Oreg. (36a)
 Sound Constr. & Engr. Co., Seattle, Wash. (46b)
 Sound Constr. & Engr. Co. & Peter Kiewit Sons' Co., Seattle, Wash. (46c)
 South Texas Constr. Co., San Benito, Texas (42f)
 Southampton Hauling Co., St. Louis, Mo. (24c)
 Southeast Constr. Co., Inc., The, Pine Bluff, Ark. (3a)
 Southeastern Constr. Co., Charlotte, N. C. & Charleston, W. Va. (32a) (47a)
 Souther, M. E., Constr. Co., St. Paul, Minn. (22a)
 Southern Bldrs., Inc., Shreveport, La. (17b)
 Southern Bldrs., Inc., Fayetteville, N. C. (32a)
 Southern Constr. Co., Charlotte, N. C. (32a)
 Southern Constr. Co., Inc., Augusta, Ga. (10a)
 Southern Contr. Co., Austin, Texas (42f)
 Southern Quarries & Contr. Div. of the New York Coal Sales Co., Columbus, Ohio (16a)
 Southern States Constr. Co., Columbia, S. C. (32a)
 Southwest Paving Co., Roscoe, Calif. (4d)
 Southwestern Constr. Co., Houston, Texas (42d)
 Southwestern Engr. Co., Los Angeles, Calif. (4d)
 Sparks, C. O., & Mundo Engr. Co., Inc., Los Angeles, Calif. (4d)
 Sparks Constr. Co., Inc., Coral Gables, Fla. (9b)
 Sparks, W. P., Jr., Waco, Texas (42L)
 Spaulding Constr. Co., Greensboro, N. C. (32a)
 Spears Constr. Co., Modesto, Calif. (4b)
 Spedale, L. A., Baton Rouge, La. (17d)
 Spencer & Co., Santa Fe, N. Mex. (30a)
 Spencer, C. B., New Orleans, La. (17a)
 Spencer Constr. Co., Spencer, Iowa (14b)
 Spencer Constr. Co., Carrollton, Texas (42f)
 Spencer, E. B., Constr. Co., Waterloo, Iowa (14a)
 Spencer, Paul, San Dimas, Calif. (4d)
 Spencer, Warren, Inc., Washington, D. C. (8a)
 Spencer, White & Prentiss, Inc., New York, N. Y.; Washington, D. C. (1) (8a)
 Spicer Co., Los Angeles, Calif. (4d)
 Spieker, Henry J., Co., The, Toledo, Ohio (34c)
 Spier, L. C., Bastrop, La. (17g)
 Spillane Constr. Co., Lakewood, Colo. (5b)
 Splady & Haagenenson, Minneapolis, Minn. (22a)
 Spong Constr. Co., Columbia, S. C. (32a)
 Springmeyer Invest. & Constr. Co., Provo, Utah (43a)
 Sproles, W. R., Constr. Co., Kingsport, Tenn. (41e)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- Spruce, Geo. T., Fayetteville, N. C. (32a)
 Stack Constr. Co., Milwaukee, Wis. (48a)
 Stackhouse, A. V., Co., Indianapolis, Ind. (13b)
 Stacy Bros., Inc., Johnson City, Tenn. (32a)
 Stacy, Geo. R., Tulelake, Calif. (4b)
 Stahr Co., The, Minneapolis, Minn. (22a)
 Stamey Constr. Co., Hutchinson, Kans. (15b) (35b)
 Standard Asphalt Paving Co., Spokane, Wash. (46c)
 Standard Bitulithic, New Castle, Del. (7a)
 Standard Bitulithic Co., Newark, N. J. (29a)
 Standard Bldg. Co., San Francisco, Calif. (4a)
 Standard Constr. Co., Bozeman, Mont. (25a)
 Standard Constr. Co., Tacoma, Wash. (46d)
 Standard Constr. Co., Inc., Minneapolis, Minn. (22a)
 Standard Dredg. Corp., Los Angeles, Calif. (4d)
 Standard Engr. Co., Inc., Washington, D. C. (L)
 Standard Iron Works, San Diego, Calif. (4c)
 Standard Materials Co., Modesto, Calif. (4b)
 Standard Paving Co., Tulsa, Okla. (35b)
 Standard Paving Co., Fort Worth, Texas (42f)
 Standard Structures, Inc., San Rafael, Calif. (4b)
 Stanfield, T. A., San Bernardino, Calif. (4d)
 Stanley, Walter A., Constr. Co., Inc., Ossining, N. Y. (L)
 Stannard Constr. Co., Wichita, Kans. (15b)
 Stansfield Constr. Co., Tampa, Fla. (9c)
 Stanton-Reed Co., Los Angeles, Calif. (4d)
 Stapp, Floyd D., Rapid City, S. Dak. (40a)
 Staring & Galbraith, Oakland, Calif. (4b)
 Starr Constr. Co., Greenville, Miss. (23a)
 Starr, H. A., Portland, Oreg. (36a)
 Starratt Brothers and Eken, Incorporated, New York, N. Y.; San Francisco, & Los Angeles, Calif. (N) (4a) (4d)
 State Constr. Co., Los Angeles, Calif. (4d)
 State Constr. Co., Seattle, Wash. (46a)
 States Constr. Co., Des Moines, Iowa (14a)
 Staunton, Thos., Great Falls, Mont. (25a)
 Stavn, H. L., Co., Inc., Hibbing, Minn. (22a)
 Stead, Frank A., Berkeley, Calif. (4a)
 Steadman Constr. Co., Kingsport, Tenn. (41e)
 Stebbins, Blanchard, Manchester, N. H. (28a)
 Stebbins Constr. Co., Tulsa, Okla. (35b)
 Steed Bros., Alhambra, Calif. (4d)
 Steele Bros., Dorchester, Nebr. (26b)
 Steele, C. C., Sacramento, Calif. (4b)
 Steele, Donald M., Philadelphia, Pa. (37d)
 Steele, Jack S., Co., Philadelphia, Pa. (37d)
 Steele, Pownall & Gebhardt, Philadelphia, Pa. (37d)
 Steelman Constr. Co., Oklahoma City, Okla. (35b)
 Steenberg Constr. Co., Inc., St. Paul, Minn. (22a)
 Steigerwald, Ed., & Sons, Inc., Milwaukee, Wis. (48a)
 Steilberg, H. J., & Son, Shively, Ky. (16b)
 Stein Constr. Co., Chattanooga, Tenn. (41a)
 Steinberg Constr. Co., Tulsa, Okla. (35b)
 Steiner Constr. Co., Baltimore, Md. (19a)
 Steine-Wolfe, Inc., Fremont, Ohio (L)
 Stendell, Elvin C., San Francisco, Calif. (4a)
 Stephens, A. A., Baton Rouge, La. (17d)
 Stephens Constr. Co., Parkersburg, W. Va. (47a)
 Stephens, Edgar, & Sons, Inc., Cairo, Ill. (12d)
 Stephens, J. S., & Sons, Tampa, Fla. (9c)
 Stephens Trucking Co., Stockton, Calif. (4b)
 Stettler, Ernest, & Sons, Logan, Utah (43a)
 Stevens, A. W., Constr. Co., Burlington, Wash. (46a)
 Stevens, Ray, Co., The, Kalamazoo, Mich. (21b)
 Stevenson Constr. Co., Salem, Oreg. (36a)
 Stewart, Harvey H., Charlotte, N. C. (32a)
 Stewart, James, & Co., Inc., New York, N. Y.; Sparrows Point, Md.; Chicago, Ill. & Dallas, Texas (N) (31c) (42a) (19a)
 Stewart, R. K., & Son, High Point, N. C. (32a)
 Stewart and Williams, Inc., Augusta, Maine (L)
 Stibbard Constr. Co., Detroit, Mich. (21a)
 Stiefel, W. Herbert, Aiken, S. C. (32a)
 Stilfield, Ben K., Constr. Co., Rock Island, Ill. (12c)
 Stillwell Constr. Co., Macon, Ga. (10a)
 Stimm, H. F., Inc., Buffalo, N. Y. (31a)
 Stimson Corp., Dallas, Texas (42j)
 Stobs Bros. Constr. Co., Miami, Fla. (9b)
 Stock & Grove, Inc., Anchorage, Alaska (50a)
 Stoeke & Olson, Rochester, Minn. (22a)
 Stocker Gravel & Constr. Co., Highland, Ill. (12c)
 Stocker, L. O., Co., St. Louis, Mo. (24c)
 Stockholm, Chas., & Sons, San Francisco, Calif. (4a)
 Stocks Mill & Supply Co., Las Vegas, Nev. (27b)
 Stockton Constr. Co., Inc., Stockton, Calif. (4b)
 Stockton, J. C., & Son, Augusta, Ga. (32a)
 Stoen's Landscape & Constr. Co., Seattle, Wash. (46a)
 Stofflet & Tillotson, Philadelphia, Pa. (37d)
 Stoltz, Inc., Oakland, & Los Angeles, Calif. (4b) (4d)
 Stolz, R. A., Constr. Co., New Hampton, Iowa (14b)
 Stone, Arthur E., Pleasantville, N. J. (29a)
 Stone, L. L., Inc., Lawrence, Ind. (13a)
 Stone & Webster Engineering Corp., New York, N. Y.; Boston, Mass.; Chicago, Ill.; Pittsburgh, Pa.; Los Angeles, & San Francisco, Calif. & Houston, Texas (N) (4b) (4d)
 Storen, W. J., Co., Detroit, Mich. (21a) (21c)
 Storms & Frew Constr. Co., Kansas City, Mo. (15b) (24b)
 Stoudt, H. E., & Son, Inc., Allentown, Pa. (37a)
 Stout, Geo., Merced, Calif. (4b)
 Stow, Mulford, Miami, Fla. (9b)
 Stowe, Virgil, Welch, W. Va. (47a)
 Strain & Brown, Inc., San Angelo, Texas (42f)
 Strain, C. Hunter, San Angelo, Texas (42f)
 Straits Constr. Co., St. Ignace, Mich. (21c)
 Strand & Sons, Seattle, Wash. (46b)
 Strandberg, L. B., & Son Co., Chicago, Ill. (12a) (31d)
 Strandberg, Stewart O., Co., Chicago, Ill. (12a)
 Strizek, Jere, Sacramento, Calif. (4b)
 Strom Constr. Co., Grand Rapids, Mich. (21b)
 Strom & Strom, Muskegon, Mich. (21b)
 Stronach, Stewart J., & Assos., Inc., Los Angeles, Calif. (4d)
 Strong Co., Springfield, Utah (43a)
 Strong & Harmon, Raleigh, N. C. (32a)
 Strong, "Les," Constr. Co., Whitney Point, N. Y. (31d)
 Strong & Macdonald, Inc., Tacoma, Wash. (36a) (46c) (46d)
 Strother-Barge Co., Atlanta, Ga. (10a)
 Strother, J. P., Constr. Co., Eldon, Iowa (14a)
 Strother & Riehm, Inc., Eldon, Iowa (14a)
 Stroud-Seabrook, Chula Vista, Calif. (4c)
 Stroup, D. Glenn, Gastonia, N. C. (32a)
 Struck Constr. Co., Louisville, Ky. (16b)
 Strunk Bros., Tiskilwa, Ill. (12c)
 Strunk Constr. Co., Somerset, Ky. (16a)
 Stuart, T., & Sons Co., Watertown, Mass. (20a)
 Studebaker, C. A., Constr. Co., Uniondale, Ind. (13a)
 Stuntz-Yeoman Co., Inc., Delphi, Ind. (13a)
 Suburban Engr. & Constr. Co., Branchville, Md. (19b)
 Suits, Harry J., Watkins Glen, N. Y. (31d)
 Sullivan, A. L., Birmingham, Ala. (1a)
 Sullivan & Cozart, Louisville, Ky. (16b)
 Sullivan, D. A., Parkwater, Wash. (45c)
 Sullivan-Foster, Inc., New Bedford, Mass. (20b)
 Sullivan, Frank P., Inc., East Haven, Conn. (6a)
 Sullivan, Long & Hagerty, Inc., Birmingham, Ala. (1a)
 Sully-Miller Contr. Co., Long Beach, Calif. (4d)
 Sulzbach, F. P., Sioux City, Iowa (14b)
 Summerbell Roof Structures, Los Angeles, Calif. (4d)
 Summit Constr. Co., Rapid City, S. Dak. (40a) (49a)
 Summit Constr. & Fixture Co., Akron, Ohio (34a)
 Sumner, Chas. V., Dallas, Texas (42a)
 Sumner Constr. Co., Nashville, Tenn. (41d)
 Sumson, J. M., & Sons, Springville, Utah (43a)
 Sundt, M. M., Constr. Co., Tucson, Ariz. (2a)
 Superior Constr. Co., Gary, Ind. (13b)
 Superior Constr. Co., Las Vegas, Nev. (27b)
 Superior Constr. Co., Seattle, Wash. (46a)
 Surace, J. P., Co., Seattle, Wash. (46a)
 Sussex, R. H., Bellingham, Wash. (46a)
 Suttle, Chas. M., Oklahoma City, Okla. (35a)
 Sutton Co., Inc., Radford, Va. (47a)
 Swalling Constr. Co., Inc., Anchorage, Alaska (50a)
 Swan Constr., Inc., Cincinnati, Ohio (34b)
 Swanburg Constr. Corp., Manchester, N. H. (28a)
 Swanson, Arnold, & Co., Hastings, Nebr. (26b)
 Swatek Constr. Co., Oklahoma City, Okla. (42j)
 Sweet, J. S., Co., Cambridge City, Ind. (13a)
 Sweitzer, J. S., & Son, Inc., St. Paul, Minn. (22a)

- Swenson, Carl N., Co., San Jose, Calif. (4a)
 Swenson Carlson Bldrs., Inc., East Chicago, Ind. (13b)
 Swenson Constr. Co., Kansas City, Mo. (24a) (15b)
 Swett, E. D., Winchester, N. H. (28a)
 Swift Constr. Co., Columbus, Ga. (10a)
 Swigart, John J., Torrance, Calif. (4d)
 Swilling & Boyd, Waco, Texas (42j)
 Swinerton & Walberg Co., San Francisco, Calif. & Denver, Colo. (4a) (5a)
 Swingen Constr. Co., Grand Forks, N. Dak. (22a)
 Swisher, Mark, Inc., Cleveland, Ohio (34c)
 Switzer & Hayes, Arvada, Colo. (5b)
 Swords-McDougal Co., Peoria, Ill. (12c)
 Syar, C. M., Vallejo, Calif. (4b)
- T**
- T-S Constr. Engrs., Inc., Los Angeles, Calif. (4d)
 Taber-Carmody Co., Grand Rapids, Mich. (21c)
 Tabone & Barbera, Pittston, Pa. (37a)
 Taggart Constr. Co., Cody, Wyo. (25a) (49a)
 Taggart, J. R., & Co., Inc., Salem, Oreg. (36a)
 Tait, W. C., San Francisco, Calif. (4a)
 Talarico Constr. Corp., Herkimer, N. Y. (31d)
 Talbot & Meier, Inc., Detroit, Mich. (21a)
 Talbott-Myers Constr. Corp., Winchester, Ky. (16a)
 Tamminga, John S., Denver, Colo. (5a)
 Tankersley Constr. Co., Oklahoma City, Okla. (35a)
 Tanner, R. C., & Sons, Phoenix, Ariz. (2a)
 Tarlton, G. L., Contr. Co., St. Louis, Mo. (12d) (24b) (24c)
 Tate, C. G., Constr. Co., Concord, N. C. & Clayton, Ga. (32a)
 Tate Pipe Linings, Inc., Andover, Mass. (4d)
 Tavares Constr. Co., La Jolla, Calif. (4c)
 Taylor Bros. Co., Inc., Birmingham, Mich. (21c)
 Taylor, C. B. & M. R., Decorah, Iowa (14a)
 Taylor Constr. Co., Miami, Fla. (9b)
 Taylor Constr. Co., Inc., Johnson City, Tenn. (41e)
 Taylor, E. F., Co., Inc., Goldsboro, N. C. (32a)
 Taylor, F. H., Co., Detroit, Mich. (21a)
 Taylor, H. J., Constr. Co., Salina, Kans. (15b)
 Taylor, Jas. T., & Son, Inc., Fort Worth, Texas (42c)
 Taylor & Kretz, Arlington, Calif. (4d)
 Tee Constr. Co., Las Vegas, Nev. (27b)
 Teer, Nello L., Co., Durham, N. C. (32a)
 Teichert, A., & Son, Inc., Sacramento, Calif. (N) (4b) (4d)
 Tellepsen Constr. Co., Houston, Texas (42d) (42h)
 Temple, Arthur, Jr. & Assos., Lufkin, Texas (42d)
 Templeton, C. E., Houston, Texas (42d)
 Templeton-Cannon, San Angelo, Texas (L)
 Templeton, E. J., Everett, Wash. (46a)
 Tennessees Constr. Co., Fargo, N. Dak. (40a)
 Terpening & Sons, Ferndale, Wash. (46a)
 Terry, Chas. C., Deming, N. Mex. (42f)
- Terry & Steadman, Inc., Bay City, Mich. (21c)
 Terteling, J. A., & Sons, Inc., Boise, Idaho (N) (11a)
 Tester, John, & Son, Inc., Washington, D. C. (8a)
 Testman, John T., Albuquerque, N. Mex. (30b)
 Teton Constr. Co., Cheyenne, Wyo. (49a)
 Teufel, Geo. E., Co., Seattle, Wash. (46b)
 Texala Constr. Co., Houston, Texas (42d)
 Texas Bitulithic Co., Dallas, Texas (42f)
 Texas-Gulf Constr. Co., Inc., Houston, Texas (42d)
 Texas-Southern Contr. Co., Fort Worth, Texas (42m)
 Tharp, Harold, Fountain City, Ind. (13a)
 Theisen Bros., Osmond, Nebr. (26b)
 Thibodeaux, Robt., Baton Rouge, La. (17d)
 Thiele Bros., Allen Grove, Wis. (48b)
 Thise, C. P., Harlingen, Texas (42o)
 Thomas, Bennett & Hunter, Inc., Westminster, Md. (19b)
 Thomas Cos., Inc., San Marino, Calif. (4d)
 Thomas Constr. Co., Ketchikan, Alaska (50a)
 Thomas Constr. Co., Burbank, Calif. (4d)
 Thomas Constr. Co., Billings, Mont. (25a)
 Thomas, J. B., & Sons, Charlotte, N. C. (32a)
 Thomas & Ratliff, Rogers, Texas (42f)
 Thomason, C. Y., Co., Greenwood, S. C. (32a)
 Thompson-Arthur Constr. Co., Greensboro, N. C. (32a)
 Thompson Constr. Co., Inc., Indianapolis, Ind. (13a)
 Thompson, F. N., Charlotte, N. C. (32a)
 Thompson, Frank, Jackson, Miss. (23b)
 Thompson, J. A., & Son, Inglewood, Calif. (4d)
 Thompson, J. M., & Co., Raleigh, N. C. (32a)
 Thompson, Jas., & Sons, Ames, Iowa (14b)
 Thompson, Jim S., Oklahoma City, Okla. (35b)
 Thompson & Morton Co., Kilgore, Texas (42n)
 Thompson, O. G., & Sons, Burlington, N. C. (32a)
 Thompson-Starrett Co., Inc., New York, N. Y.; Chicago, Ill.; Boston, Mass. (12a) (20b) (31c)
 Thompson & Street Co., Birmingham, Ala.; Atlanta, Ga. & Clarksburg, W. Va. (1a) (10a) (47a)
 Thomsen-Abbott Constr. Co., Marshfield, Wis. (48b)
 Thorburn & Logozo, Seattle, Wash. (46a)
 Thorgersen & Ericksen Co., Chicago, Ill. (12a)
 Thorn, A. O., & Sons Constr. Co., Provo, Utah (43a)
 Thornton Constr. Co., Hancock, Mich. (21c)
 Thurman, John M., Borger, Texas (35a)
 Thygesen, Henry, & Co., Albuquerque, N. Mex. (30a)
 Tiberti, J. A., Constr. Co., Las Vegas, Nev. (27b)
 Tidewater Construction Corporation, Norfolk, Va. (N) (29a)
 Tidmarsh Engr. Co., Tucson, Ariz. (2a)
 Tiffany Constr. Co., Phoenix, Ariz. (2a)
- Till, Archie L., Yuba City, Calif. (4b)
 Tillman, G. E., Co., Centralia, Ill. (12c)
 Timber Structures, Inc., Portland, Oreg. (36b)
 Timmons Constr. Co., Amarillo, Texas (42g)
 Tinker, H. G., Macon, Ga. (10a)
 Tisdale & Collins Constr. Co., Beech Grove, Ind. (13a)
 Tobin, Edwin J., Berkeley, Calif. (4b)
 Tobin, J. A., Constr. Co., Kansas City, Kans. (15b) (24b)
 Tobin Quarries, Inc., Kansas City, Mo. (24b)
 Tocci Bros. Constr. Co., Newtonville, Mass. (20b)
 Todd, R. R., Santa Rosa, Calif. (4a)
 Toebe, Walter, & Co., Lansing, Mich. (21c)
 Tolboe & Harlin Constr. Co., Provo, Utah (43a)
 Tomei Constr. Co., Van Nuys, Calif. (4d)
 Tomlinson & Hawley, Inc., Bridgeport, Conn. (6a)
 Tomlinson, T. R., Doyline, La. (17c)
 Tompkins, Chas. H., Co., Washington, D. C.; Fort Worth, Texas (N) (8a) (42c)
 Tonn & Blank, Inc., Michigan City, Ind. (13b)
 Tornell Constr. Co., Tracy, Calif. (4a)
 Torpey, Michael J., Inc., Woodside, N. Y. (31d)
 Torrington Bldg. Co., The, Torrington, Conn. (6a)
 Tousey, H. D., Co., Inc., Indianapolis, Ind. (13b)
 Tout, J. R., Co., Inc., Fresno, Calif. (4b)
 Tower Constr. Co., Inc., The, Seattle, Wash. (46b)
 Towles-Cline Constr. Co., Wilmington, N. C. (32a)
 Townsend & Bottum, Inc., Ann Arbor, Mich. (21b)
 Townsend & Elfretth Co., Philadelphia, Pa. (37d)
 Trager, Frank, Chillicothe, Mo. (24b)
 Transocean Engr. Corp., San Lorenzo, Calif. (4b)
 Travelodge Corp., The, San Diego, Calif. (4c)
 Traverso, T. W., Seattle, Wash. (46a)
 Traylor Bros., Inc., Evansville, Ind. (13a) (13b)
 Treadwell, C. H., Shreveport, La. (17b)
 Tredennick-Billings Co., The, Boston, Mass. (20b)
 Trepte Constr. Co., San Diego, Calif. (4c)
 Triangle Constr. Co., Sacramento, Calif. (4b)
 Triangle Constr. Co., Boise, Idaho (11a)
 Triangle Constr. Co., Kankakee, Ill. (12c)
 Triangle Constr. Co., Greenville, S. C. (32a)
 Triangle Rock & Gravel Co., San Bernardino, Calif. (4d)
 Trier, Fred C., Constr. Co., Saginaw, Mich. (21b)
 Tri-Lake Constr. Co., Inc., Columbia City, Ind. (13a)
 Trimble Co., The, Pittsburgh, Pa. (37b)
 Trinidad Asphalt Mfg. Co., St. Louis, Mo. (12c)
 Triple Cities Constr. Co., Inc., Binghamton, N. Y. (31d)
 Triplett, F. A., Inc., Chester, S. C. (32a)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

Tri-State Asphalt Corp., Martins Ferry, Ohio (34d)
 Tri-State Constr. Co., Memphis, Tenn. (41c)
 Tri-State Constr. Co., The, Indianapolis, Ind. (13a)
 Tri-State Engr. Co., Benton, Ill. (12c)
 Tri-States Constr. Co., Little Rock, Ark. (3a)
 Tritt Bros., Belleville, Ill. (12c)
 Trompeter Constr. Co., Peru, Ill. (12c)
 Trotti & Thomson, Inc., Beaumont, Texas (42f)
 Troup Bros., Inc., Miami, Fla. (9b)
 Trousdale Constr. Co., Los Angeles, Calif. (4d)
 Troxell, J. A., Portland, Oreg. (36a)
 Trueheart & Caldwell, San Antonio, Texas (42j)
 Trumbull-Nelson Co., Inc., Hanover, N. H. (28a)
 Tru-Mix Concrete Co., Medford, Oreg. (36a)
 Tuckahoe Constr. Co., Inc., Tuckahoe, N. Y. (31d)
 Tuckman-Barbee Constr. Co., Inc., Washington, D. C. (8a)
 Tudor Constr. Co., Alexandria, La. (17f)
 Tuller Construction Company, The, Red Bank, N. J. (N)
 Tully Constr. Co., Chicago, Ill. (12a)
 Tully & Dinapoli, Inc., Long Island City, N. Y. (31d)
 Tulsa Rig, Reel & Mfg. Co., Tulsa, Okla. (35a) (35b)
 Tunnichiff Constr. Co., Davenport, Iowa (14b)
 Turgeon, E., Constr. Co., Inc., Providence, R. I. (38a)
 Turnbull, B. F., Inc., Seattle, Wash. (46b)
 Turner, C. H., Co., Inc., Pensacola, Fla. (9d)
 Turner Construction Co., New York, N. Y.; Baltimore, Md.; Philadelphia, Pa.; Boston, Mass. & Chicago, Ill. (N) (8a) (12a) (20b) (31c) (37d) (19a)
 Turner Constr. Co., Memphis, Tenn. (41c)
 Turner, Lee T., Washington, D. C. (8a)
 Turner, Luther A., & Son, Austin, Texas (42f)
 Turnquist, O. E., Constr. Co., Seattle, Wash. (46b)
 Tuttle, C. B., Co., Long Beach, Calif. (4b) (4d)
 Tvedt, L. A., Memphis, Tenn. (41c)
 Twaits, Ford J., Co., Los Angeles, Calif. (4d)
 Tway, R. R., Co., Oklahoma City, Okla. (35b)
 Tye & Wells, Eminence, Ky. (16a)
 Tyrone Gardens, Inc., St. Petersburg, Fla. (9c)
 Tyson & Watters, Inc., Sacramento, Calif. (4b)

U

Udesen, Robt., Denver, Colo. (5a)
 Uhl Constr. Co., Pittsburgh, Pa. (37b)
 Ulland Bros., Austin, Minn. (22a)
 Underground Constr. Co., Oakland, Calif. (4b)
 Underseeth, Theo, Helena, Mont. (25b)
 Union Bldg. & Constr. Corp., Passaic, N. J. (29a)
 Union Constr. Co., Des Moines, Iowa (14a)

Union Constr. Co., Inc., Missoula, Mont. (25a)
 Union Paving Co., Philadelphia, Pa. (29a)
 United Bldg. Constr. Co., Philadelphia, Pa. (37d)
 United Concrete Pipe Corp., Baldwin Park, Calif. (4b) (4d)
 United Construction Co., Winona, Minn. & Long Beach, Calif. (N) (4d) (22a)
 United Constr. Co., Memphis, Tenn. (41c)
 United Contr. Co., Portland, Oreg. (36a)
 United Engineers & Constructors Inc., Philadelphia, Pa. (N)
 United States Constr. Corp., Anaheim, Calif. (4d)
 Universal Constr. Co., Kansas City, Mo. (24a)
 Universal Constr., Inc., Milwaukee, Wis. (48a)
 Unkefer Bros. Constr. Co., Philadelphia, & Pittsburgh, Pa. (37b) (37d)
 Upchurch, W. K., Constr. Co., Montgomery, Ala. (1a)
 Upham, Dale, West Union, Iowa (14a)
 Upton-Lang Co., Erie, Pa. (37a)
 Ursprung, R. S., Co., Cleveland, Ohio (34c)
 Utah Construction Co., The, Ogden, & Salt Lake City, Utah & San Francisco, Calif. (N) (4b) (4d) (43a) (36a)
 Utah Constr. Co. & C. H. Leavell & Co., Los Alamos, N. Mex. (30b)
 Utility Bldrs., Inc., Great Falls, Mont. (25a)
 Utility Constr. Co., South Gate, Calif. (4d)
 Utility Constr. Co., New Brunswick, N. J. (29a)
 Utility Constr. Co., Tacoma, Wash. (46d)
 Utley, J. A., Co., Detroit, Mich. (21a)
 Uvalde Constr. Co., Dallas, Texas (42f)

V

Valle, Henrik, Co., Inc., Seattle, Wash. (46b) (50a)
 Valley Bldrs., Inc., Spring Valley, Ill. (12c)
 Valley Bldg. Co., Roswell, N. Mex. (30b)
 Valley Constr. Co., Seattle, Wash. (46a)
 Valley Engr. Co., St. Charles, Ill. (12c)
 Valley Paving & Constr. Co., Inc., Pismo Beach, Calif. (4b) (4d)
 Valley Trenching Co., Fresno, Calif. (4b)
 Van Bokkelen-Cole Co., Oakland, Calif. (4a)
 Van Buskirk, Harold, & Co., Inc., Houston, Texas (42d)
 Van Buskirk, Ira, & Sons, Hawarden, Iowa (14a)
 Vance Bros., Kansas City, Mo. (15b) (24b)
 Van Cleve Constr. Co., Houston, Texas (42d)
 Van Dalsem, V. F., San Jose, Calif. (4a)
 Vander Veen, E. J., Grand Rapids, Mich. (21c)
 Vander Veen, P., & Sons, Grand Rapids, Mich. (21c)
 Vandivort Constr. Co., Wenatchee, Wash. (46b)
 Van Dusseldorp, Eben, Colfax, Iowa (14a)
 Van Eyck, T., Tampa, Fla. (9c)
 Vang, Geo., Inc., Pittsburgh, Pa. (37c)
 Van Kleeck, Wm., New Paltz, N. Y. (31d)
 Van Sant Bros., Wilmington, Del. (7a)
 Van Valkenburgh, N. P., South Gate, & Sacramento, Calif. (2a) (4b) (4d)
 Van Winkle & Co., Atlanta, Ga. (10a)

Van Winkle, W. F. & D. E., Golden, Colo. (5b)
 Vappi Co., Inc., Cambridge, Mass. (20b)
 Vara Constr., Inc., Boston, Mass. (20b)
 Varnum, Walter, Coeur d'Alene, Idaho (46e)
 Vasey Constr. Co., Carlsbad, N. Mex. (30b)
 Vaughan, D. M., Lafayette, Ind. (13a)
 Vaughn & Taylor Constr. Co., Inc., Wichita Falls, Texas (42m)
 Vawter, Fane F., & Co., Des Moines, Iowa (14b)
 Vecellio & Grogan, Beckley, W. Va. (47a)
 Vecellio, Oscar, Beckley, W. Va. (47a)
 Ventura Engr. Co., Phoenix, Ariz. (2a)
 Verga, Eugene F., Inc., Camden, N. J. (29a)
 Verhey Constr. Co., Chattanooga, Tenn. (41a)
 Vermilya-Brown Company, Inc., New York, N. Y. (N) (31c)
 Vernon Bros. Co., Boise, Idaho (11a)
 Vernon Paving Co., Vernon Branch, Calif. (4d)
 Versaggi Bros. Constr. Co., Wildwood, N. J. (29a)
 Vest & Bartell Constr. Co., Cincinnati, Ohio (34b)
 Via, H. H., Santa Fe, N. Mex. (30b)
 Vick, Wm. C., Raleigh, N. C. (32a)
 Victory Constr. Co., Brentwood, Mo. (21c)
 Viesko & Post, Salem, Oreg. (36b)
 Viette, Jas. J., Littleton, N. H. (28a)
 Vilbig Bros., Inc., Dallas, Texas (42a)
 Villa Constr. Co., Inc., Westfield, N. J. (29a)
 Villard Contr., Inc., Hastings-on-Hudson, N. Y. (29a)
 Vincent-Peterson Co., Salt Lake City, Utah (43a)
 Vinnell Co., Inc., Alhambra, Calif. (2a) (4d)
 Vinson Constr. Co., Phoenix, Ariz. (2a)
 Vinton Constr. Co., Coldwater, Mich. (21c)
 Viperman Constr. Co., Beckley, W. Va. (47a)
 Virginia Engineering Co., Inc., Newport News, Va. (N)
 Visalia Concrete Pipe Co., Visalia, Calif. (4b)
 Vivrett & Vivrett, Dallas, Texas (42a)
 Vizzini, Philip, Baltimore, Md. (19a)
 Vlachic, Robt., Los Angeles, Calif. (4d)
 Vogel Bros. Bldg. Co., Madison, Wis. (48b)
 Vogel, Wm. D., Indianapolis, Ind. (13a)
 Vogt, Elmer, Inc., Massillon, Ohio (34d)
 Vokes, H. L., Co., Inc., The, Cleveland, Ohio (34c)
 Vollmar Bros. Constr. Co., St. Louis, Mo. (24c)
 Vollmer, C. W., & Co., Houston, Texas (23a)
 Vollmer, Clarence E., Constr. Co., Wichita, Kans. (15a)
 Volpa Bros., Fresno, Calif. (4b)
 Volpe Constr. Co., Malden, Mass. (20b)
 Volpe, S., & Co., Inc., Boston, Mass. (20b)
 von Rosenberg, H. J., San Antonio, Texas (42e)
 Vowell Constr. Co., El Paso, Texas (42f)

W

W-M Corp., Chicago, Ill. (12a)
 Waale-Camplan Co., Portland, Oreg. (36b)
 Waale, Camplan Co. of Los Angeles, Los Angeles, Calif. (4d)
 Wadhams & May Co., The, Hartford, Conn. (6a)

- Wagner, C. A., Constr. Co., Sioux Falls, S. Dak. (40a)
- Wagner Constr. Co., Austin, Minn. (22a)
- Wagner, Inc., Cincinnati, Ohio (34b)
- Wagner, Karl B., Austin, Texas (42j)
- Wagoner Constr. Co., Salisbury, N. C. (32a)
- Waitman, E. J., Harlingen, Texas (42o)
- Walbridge, Aldinger Company, Detroit, Mich. (N) (21a)
- Walco Engr. & Constr. Co., Tulsa, Okla. (35a)
- Waldron, Edward M., Incorporated, Newark, N. J. (L)
- Walker, C. Glenn, Co., Ft. Dodge, Iowa (14b)
- Walker, E. G., Tacoma, Wash. (46d)
- Walker, Geo. W., & Sons, Inc., Buffalo, N. Y. (31a)
- Walker, J. B. & R. E., Salt Lake City, Utah (43a)
- Walker-Lewis Constr. Co., Mobile, Ala. (1a)
- Walker, P. J., Co., Los Angeles, Calif. (4d)
- Wallace & Bowden, Dallas, Texas (42f)
- Wallace, W. H., Constr. Co., Dallas, Texas (42a)
- Wallace & Wallace Contrs., Phoenix, Ariz. (2a)
- Wallace, Wm., Philadelphia, Pa. (37d)
- Waller-Wells Constr. Co., Tulsa, Okla. (35a)
- Walser, John F., Pontiac, Mich. (21c)
- Walsh & Burney Co., San Antonio, Texas (42e)
- Walsh Construction Company, New York, N. Y.; Davenport, Iowa & San Francisco, Calif. (N) (4b) (4d)
- Walsh Constr. Co., Electra, Texas (42j)
- Walsh & Ikeler, Gary, Ind. (13a)
- Walsh, J. A., Corpus Christi, Texas (42i)
- Walsh, T. H., & Argo Engr. Co., Los Angeles, Calif. (4d)
- Walsh-Weaver Constr. Co., Inc., Jackson, Miss. (23a)
- Walters & Prater, Morristown, Tenn. (41b)
- Walters Sand Co., Manhattan, Kans. (15b)
- Walton, J. S., & Co., Mobile, Ala. (1a)
- Walton, W. W., Co., Tyler, Texas (42n)
- Wambold, Edgar M., Philadelphia, Pa. (37d)
- Wandel, Bruce B., Pittsburgh, Pa. (37c)
- Wannamaker & Wells, Inc., Orangeburg, S. C. (32a)
- Ward, C. P., Inc., Rochester, N. Y. (31d)
- Ward, Ken, Constr. Co., Portland, Ore. (36a)
- Ward, O. J., Inc., Shreveport, La. (17e)
- Wark & Co., Philadelphia, Pa. (37d)
- Warlick, L. A., Constr. Co., Chattanooga, Tenn. (41a)
- Warm, J. & E., Co., The, Cincinnati, Ohio (34b)
- Warner, A. R. & Son, Waynesboro, Pa. (37a)
- Warrack, J. B., Co., Seattle, Wash. & Anchorage, Alaska (46b) (50a)
- Warren Bros. Roads Co., Cambridge, Mass. & Birmingham, Ala. (1a) (31d)
- Warren, F. V., Inc., Philadelphia, Pa. (37d)
- Warren, Geo. T., Alameda, Calif. (4b)
- Warren Northwest, Inc., Portland, Ore. (36a)
- Warren-Southwest, Inc., Torrance, Calif. (2a) (4d)
- Warrington Constr. Co., Cheyenne, Wyo. (49a)
- Warter Constr. Co., Tacoma, Wash. (46d)
- Washington Asphalt Co., Seattle, Wash. (46a)
- Wasielewski, E. J., Phoenix, Ariz. (2a)
- Waterfall Constr. Co., Ogden, Utah (43a)
- Waters Constr. Co., Elizabethtown, Ky. (16a)
- Waters, Ed, Van Nuys, Calif. (4d)
- Waters, John N., Audubon, N. J. (29a)
- Watkins, C. W., & Son, Boise, Idaho (11a)
- Watkins, Ted, Linden, Calif. (4b)
- Watson, Fred O., Co., Minneapolis, Minn. (22a)
- Watson, Harold L., East St. Louis, Ill. (12d)
- Watson, M. W., Topeka, Kans. & Corpus Christi, Texas (15a) (15b) (42i)
- Watt, R. P., Sacramento, Calif. (4a)
- Watts, Cleal T., Rochdale, Miss. (23a)
- Watts Constr. Co., The, Toledo, Ohio (34e)
- Watts, J. G., Constr. Co., Seattle, Wash. (36a) (46b)
- Watson, R. A., Co., North Hollywood, Calif. (4d)
- Waxberg, A. E., Constr. Co., Fairbanks, Alaska (50a)
- Wayland, John F., Washington, Kans. (15a)
- Wayman, W. M., Constr. Co., Cherokee, Iowa (14b)
- Wayne Paving, Inc., Fort Wayne, Ind. (13a)
- Weaver Bros. Constr. Co., Concord, N. H. (28a)
- Weaver Constr. Co., Johnson City, Tenn. (41e)
- Weaver Constr. Co., Corpus Christi, Texas (42i)
- Weaver Crane & Trucking Co., Inc., Charleston, W. Va. (47a)
- Weaver, M. O., Inc., Des Moines, Iowa (14a)
- Weaver, W. H., Constr. Co., Inc., Greensboro, N. C. (32a)
- Webb, Del E., Constr. Co., Phoenix, Ariz. & Los Angeles, Calif. (N) (2a) (4d)
- Webb, T. A., Austin, Texas (42k)
- Webb & White, Los Angeles, Calif. (4d)
- Webber, Fred H., Omaha, Nebr. (26a)
- Weber, Herman, Beaumont, Texas (42h)
- Wedegartner Constr. Co., Brownsville, Texas (42o)
- Weeks Constr. Co., Inc., Kansas City, Mo. (24a)
- Weems, Gordon C., Willows, Calif. (4b)
- Wegman & Co., Portland, Ore. (36b)
- Wehr, Edw. A., Pittsburgh, Pa. (37b)
- Weidner & King, Fremont, Nebr. (26b)
- Weikel Constr. Co., Inc., The, Fort Wayne, Ind. (13a)
- Weinstein Constr. Co., Akron, Ohio (34a)
- Weise Bros., Austin, Texas (42k)
- Weiss, R. L., & Son, Fountain City, Tenn. (41b)
- Weist, Ray, Yakima, Wash. (46c)
- Weitz Co., Inc., The, Des Moines, Iowa (14a) (14b)
- Welch Constr. Co., Shreveport, La. (17b)
- Welch, Mike, Minneapolis, Minn. (22a)
- Welcome, J. J., Constr. Co., Seattle, Wash. (46a)
- Welden Bros., Iowa Falls, Iowa (14a)
- Welden, O. E., Seattle, Wash. (46b)
- Weldon Contr. Co., Westfield, N. J. (29a)
- Weller Bros., Spokane, Wash. (46c)
- Wells Cargo, Inc., Reno, Nev. (27a)
- Wells Contr. Co., Natchitoches, La. (17e)
- Wells, W. L., Jackson, Miss. (23b)
- Wells & Wells, Inc., St. Louis, Mo. (24c)
- Wellwood, Inc., Tampa, Fla. (9c)
- Welsh, J. H., Contr. Co., Phoenix, Ariz. (2a)
- Wende, Geo., Oakdale, Calif. (4b)
- Wendel Constr. Co., El Campo, Texas (42f)
- Wermuth, Inc., Fort Wayne, Ind. (13b) (21a)
- Werner Co., The, Shreveport, La. (17b)
- Werner, Geo. K., & Son, Clay Center, Nebr. (26b)
- Werner, H. C., Inc., Eugene, Ore. (36a)
- Werner, H. C., Inc. & F. W. Riddle Co., Eugene, Ore. (46d)
- Wesley & Co., Inc., Atlanta, Ga. (10a)
- Wessell Constr. Co., Memphis, Tenn. (41c)
- West Bldg. Co., Inc., Winston-Salem, N. C. (32a)
- West & Douglas, Pasadena, Calif. (4d)
- West, J. H., Birmingham, Ala. (1a)
- West, P. S., Constr. Co., Inc., Statesville, N. C. (32a)
- West Shore Constr. Co., Zeeland, Mich. (21c)
- Westbrook & Pope, Sacramento, Calif. (4b) (27a)
- Westcott-Bowen Constr. Co., Lincoln, Nebr. (26a)
- Western Asphalt Co., Seattle, Wash. (46a)
- Western Constr. Co., Greeley, Colo. (5b)
- Western Constr. Co., Pocatello, Idaho (11a)
- Western Constr. Co., Inc., Lake Charles, La. (17c)
- Western Constrs., Inc., Phoenix, Ariz. (2a)
- Western Contracting Corporation, Sioux City, Iowa & Newman, Calif. (N) (2a) (4b) (14a) (15b) (26b) (40a) (42f)
- Western Engr. Co., Harlan, Iowa (14a)
- Western Motor Transfer, Inc., Santa Barbara, Calif. (4d)
- Western U. S. Constr. Co., Pacoima, Calif. (4d)
- Westlake Constr. Co., St. Louis, Mo. (24c)
- Westland Constr. Co., Inc., The, Seattle, Wash. (46b)
- Westphal, John C., Co., Detroit, Mich. (21a)
- Wetherby, J. P., Constr. Co., Ottawa, Ill. (12c)
- Wetmore, W. G., Jackson, Miss. (23b)
- Wey-Leonard Constr. Co., Atlanta, Ga. (10a)
- Weymouth Constr. Co., Memphis, Tenn. (23a)
- Whalen, Jos. T., Inc., Pottsville, Pa. (37a)
- Whalley-Strong Co., Savannah, Ga. (10a)
- Wheatley, Geo. W., & Son, Duplo, Ill. (12d)
- Wheeler, C. F., Miami, Fla. (9b)
- Wheeler, Earl C., Hartford, Conn. (6a)
- Wheeler & Tempest, Salt Lake City, Utah (43a)
- Wheeler & Trotz, Albuquerque, N. Mex. (30a)
- Wheelwright Constr. Co., Ogden, Utah (43a)
- Whetzel Bros., Champaign, Ill. (12c)
- Whitaker, Guy C., Shreveport, La. (17b)
- Whitcomb, Arthur, Constr. Co., Inc., Keene, N. H. (28a)
- Whitcomb, Frank W., Constr. Corp., North Walpole, N. H. (28a)
- White, A. P., & Assos., Charlotte, N. C. (32a)
- White, Barclay, & Co., Inc., Philadelphia, Pa. (37d)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

A.G.C. DIRECTORY

- White Bros. Constr. Co., Inc., Monarch, Mont., & Walla Walla, Wash. (25a) (36a)
- White Constr. Co., Pensacola, Fla. (9d)
- White Constr. Co., Boston, Mass. (20b)
- White Constr. Co., Inc., New York City (31c)
- White Constr. & Engr. Co., St. Petersburg, Fla. (9c)
- White, Frank E., Mobile, Ala. (1a)
- White, H. E., Tyler, Texas (42n)
- White, Howard J., Inc., Palo Alto, Calif. (4a)
- White, L. M., Contr. Co., Tucson, Ariz. (2a)
- White, Noble W., Seattle, Wash. (46b)
- White, Richard, Sons Co., Inc., West Newton, Mass. (20b)
- White, Wm. L., & Son, Terre Haute, Ind. (13a)
- Whitehead, I. L., Co., Sault Ste. Marie, Mich. (21c)
- Whitehurst Constr. Co., Ponca City, Okla. (35a)
- Whiting, Floyd S., Murray, Utah (43a)
- Whiting & Haymond, Springville, Utah (43a)
- Whitley, D. A., Spokane, Wash. (46c)
- Whitmeyer, Geo. A., & Sons Co., Ogden, Utah (43a)
- Whitmore, C. B., Co., Lockport, N. Y. (31d)
- Whitmyer Bros., Hammonton, N. J. (29a)
- Whittenberg Constr. Co., Louisville, Ky. (16b)
- Whittle, R. D., Constr. Co., Dallas, Texas (42j)
- Whittmore, S. E., Albuquerque, N. Mex. (30b)
- Whitten Bros., Charlotte, N. C. (32a)
- Wick & Dahlgren, Seattle, Wash. (46b)
- Wickes Engr. & Constr. Co., Des Moines, Iowa (14a) (14b)
- Wiechmann & Probasco, Inc., Reno, Nev. (27a)
- Wiesand, Wm. J., Baltimore, Md. (19a)
- Wigton-Abbott Corporation, Plainfield, N. J. (1) (37d)
- Wikstrom, A. S., Skaneateles, N. Y. (31d)
- Wilborn Constr. Co., Birmingham, Ala. (1a)
- Wilburn & Son, Asheville, N. C. (32a)
- Wilcox, Ira C., Co., Pittsburgh, Pa. (37b)
- Wilcox, Jack, Huntington Park, Calif. (4d)
- Wilder, C. V., Co., Bellingham, Wash. (46a)
- Wilder, F. E., Olympia, Wash. (46a)
- Wildes Constr. Co., Waterloo, Iowa (14b)
- Wildman, R. H., Constr. Co., Iowa City, Iowa (14b)
- Wile, Henry E., Co., Newton Centre, Mass. (20b)
- Wilhelm, F. A., Indianapolis, Ind. (13b)
- Wilkerson, J. Ted., Kansas City, Mo. (35b)
- Wilkes Contr. Corp., Buffalo, N. Y. (31d)
- Wilkins Constr. Co., Pittsburgh, Pa. (37c)
- Wilks, Dale & Steed, Tyler, Texas (42j)
- Willamette Tug & Barge Co., Portland, Oreg. (36a)
- Willard-Brent Co., Los Angeles, Calif. (4d)
- Willard, J. W., Bowling Green, Ky. (16a)
- Williams-Austin Co., Pittsburgh, Pa. (42m)
- Williams Bros. Corp., Tulsa, Okla. (35b) (42m)
- Williams & Burrows, Inc., Burlingame, Calif. (4a)
- Williams, Claude K., & Co., Houston, Texas (42d)
- Williams, Cole, Inc., Dallas, Texas (42j)
- Williams Constr. Co., Baltimore, Md. (19b)
- Williams Constr. Co., Tigard, Oreg. (36a)
- Williams Constr. Co., Houston, Texas (42d)
- Williams Constr. & Drilling Co., Grand Junction, Colo. (5b)
- Williams, Edw., Houston, Texas (42d)
- Williams Equip. Co., Fairbanks, Alaska (50a)
- Williams, H. A., Allentown, Pa. (37a)
- Williams, J. E., Constr. Co., St. Louis, Mo. (24c)
- Williams, J. H., & Co., Baltimore, Md. (19a)
- Williams, J. L., Constr. Co., Inc., Houston, Texas (42j)
- Willingham Constr. Co., Inc., St. Louis, Mo. (24c)
- Willis, C. G., & Sons, Inc., Los Angeles, Calif. (4d)
- Willis Constr., Branchville, Sussex Co., N. J. (29a)
- Willis, T. S., Janesville, Wis. (48b)
- Willson, Jack, Downey, Calif. (4d)
- Willy Constr. Co., Dubuque, Iowa (14b)
- Wilmington Constr. Co., Los Angeles, Calif. (4d)
- Wilmoth, Tom, Longview, Texas (42n)
- Wilsam, Geo., Wichita, Kans. (15a)
- Wilson Bros., Parkersburg, W. Va. (47a)
- Wilson, C. T., Contr. Co., St. Louis, Mo. (12d) (24b) (24c)
- Wilson Constr. Co., Lincoln, Nebr. (26a)
- Wilson Constr. Co., Inc., Salisbury, N. C. (32a)
- Wilson Constr. Co., Inc., Johnstown, Pa. (37a)
- Wilson Covington Constr. Co., Winston-Salem, N. C. (32a)
- Wilson, Frank H., Ardmore, Pa. (37d)
- Wilson, G. L., Bldg. Co., Statesville, N. C. (32a)
- Wilson, H. P., New Castle, Del. (7a)
- Wilson, J. H., Co., Seattle, Wash. (46b)
- Wilson, J. L., Bloomfield, Ind. (13a)
- Wilson-Ledford Constr. Co., Inc., Gastonia, N. C. (32a)
- Wilson, Mark K., Co., Chattanooga, Tenn. (41a)
- Wilson, S. M., & Co., Granite City, Ill. (12d)
- Wilson & Seward, Plano, Texas (42j)
- Wilschek & Nelson, Inc., Racine, Wis. (48b)
- Windham & Sons, Inc., Livingston, Texas (42d)
- Wininger & Selby, Inc., New York, N. Y. (37d)
- Winkelman, D. W., Carolina Co., Greensboro, N. C. (32a)
- Winkelman, D. W., Co. Inc., Syracuse, N. Y. (N) (31d)
- Winn-Senter Constr. Co., Kansas City, Mo. (24a)
- Winner, B. L., Co., Inc., Pittsburgh, Pa. (37b)
- Winslow Constr. Co., Salem, Ind. (13a)
- Winston Bros. Company, Minneapolis, Minn. & Monrovia, Calif. (N) (2a) (4d) (22a) (24b)
- Winston Bros. Company & The Utah Construction Co., Ephrata, Wash. (46c)
- Winter-King & Son, Beaumont, Texas (42h)
- Wintz, Frank I., & Son, Philadelphia, Pa. (37d)
- Wirtz, Walter E., Amarillo, Texas (42g)
- Wise Contr. Co., Richmond, Va. (45a)
- Wise, J. H., & Son, Boise, Idaho (11a)
- Wise, Orville W., Indianapolis, Ind. (13b)
- Wisner & Miller, Lodi, Calif. (4a)
- Witcher, Dean L., Minneapolis, Minn. (22a)
- Withers, P. T., Constr. Co., Gastonia, N. C. (32a)
- Witters Constr. Co., Inc., Miami, Fla. (9b)
- Woehl, A. J., Bastrop, Texas (42k)
- Woermann Constr. Co., St. Louis, Mo. (24c)
- Wohl-Calhoun Co., Los Angeles, Calif. (4d)
- Wohlfeld, Nathan, Dallas, Texas (42d) (42k)
- Wohlgemuth, C., Jr., Washington, D. C. (8a)
- Wolf Constr. Co., Logansport, Ind. (13b)
- Wolff, Arthur C., Inc., Milwaukee, Wis. (48a)
- Wolter, W. H., Corpus Christi, Texas (42i)
- Womack Constr. Co., Phoenix, Ariz. (2a)
- Wonderly Constr. Co., Long Beach, Calif. (4d)
- Wood & Barton Co., Frankfort, Ky. (16a)
- Wood, Claude C., Co., Lodi, Calif. (4b)
- Wood, Clyde W., & Sons, Inc., North Hollywood, Calif. (4b) (4d)
- Wood, Earl R., Ainsworth, Iowa (14b)
- Wood, Milo, Newton, Iowa (14b)
- Wood, W. E., Co., Detroit, Mich. (21a)
- Woodcock, O. P., Co., Jacksonville, Fla. (9a)
- Wooding, C. F., Co., The, Wallingford, Conn. (6a)
- Woodruff, H. E., Corpus Christi, Texas (42i)
- Woodruff, W. E., Co., Houston, Texas (42d)
- Woodward Constr. Co., Rock Springs, Wyo. (49a)
- Woodward, L. A., Constr. Co., Missoula, Mont. (25a)
- Woodworth & Co., Inc., Tacoma, Wash. (46d)
- Woolley, J. E., Birmingham, Ala. (1a)
- Worcester, John C., San Antonio, Texas (42c)
- Word, Dean, & Co., New Braunfels, Texas (42f)
- Worrell, M. E., Junction, Texas (42f)
- Worth Constr. Co., Fort Worth, Texas (42f)
- Wrenn-Wilson Constr. Co., Durham, N. C. (32a)
- Wright Constr. Co., Williamston, Mich. (21c)
- Wright, Howard S., & Co., Inc., Seattle, Wash. (46b)
- Wright & Kremers, Inc., Niagara Falls, N. Y. (31a)
- Wright, Robt. R., Clayton, Mo. (24c)
- Wunderlich Contracting Company, Omaha, Nebr. (N) (5b)
- Wylie Bros., Albuquerque, N. Mex. (30a)
- Wyoming Constr. Co., Laramie, Wyo. (49a)
- Wyoming Improvement Co., Cheyenne, Wyo. (49a)
- Wyse, Harry O., Lexington, Ky. (16a)

Y

- Yant Constr. Co., Omaha, Nebr. (26b)
- Yeager, E. L., Riverside, Calif. (4d)
- Yellin, S., & Son, Inc., Philadelphia, Pa. (37d)
- Yeuter, J. C., Tyrone, Pa. (37a)
- Yerington, John G., Benton Harbor, Mich. (21c)
- Yett, Porter W., Portland, Oreg. (36a)
- Yocom, O. C., McMinville, Oreg. (36a)

Young & Adams, Inc., Baltimore, Md. (19a)
 Young, B. G., & Sons, Johnson City, Tenn. (41e)
 Young Constr. Co., St. Joseph, Mo. (15b)
 Young Constr. Co., Rock Hill, S. C. & Charlotte, N. C. (32a)
 Young, F. E., Berkeley, Calif. (4b)
 Young, F. E., Constr. Co., San Diego, Calif. (4c)
 Young, Fred, Memphis, Tenn. (41c)
 Young, J. E., Pipeline Contr., Inc., Los Angeles, Calif. (4d)
 Young, J. R., Constr. Co., Inc., Fayetteville, N. C. (32a)
 Young, L. A., Constr. Co., Richfield, Utah (43a)

Young, Perce, Bldg. Constr., Salt Lake City, Utah (43a)
 Young & Smith Constr. Co., Salt Lake City, Utah (43a)
 Young & Sons Constr. Co., Inc., Chicago, Ill. (12a)
 Young, W. M., Tracy, Calif. (4b)
 Youngman, H. D., Baxter Springs, Kans. (15b) (35b)
 Yount, R. F., Co., Kittanning, Pa. (37c)

Z

Zachry, H. B., Co., San Antonio, & Laredo, Texas (N) (42d) (42f) (42i)

Zara Contr. Co., Inc., Hewlett, L. I., N. Y. (31d)
 Zeigler-Cline Constr. Co., Fayetteville, N. C. (32a)
 Zeller, Max J., Inc., Columbus, Ohio (34d)
 Zempter, J. W., Contr. Co., Inc., Galveston, Texas (42d)
 Zerkel Constr. Co., Washington, D. C. (8a)
 Zimmerly Constr. Co., Paris, Ill. (12c)
 Zimmerman, Louis, Jr., Hillside, N. J. (29a)
 Ziobro, Stanley J., Inc., Bloomfield, N. J. (29a)
 Zitterell-Mills Co., Webster City, Iowa (14b)
 Zschach Constr. Co., Okmulgee, Okla. (35b)
 Zull, C. Louis, Cincinnati, Ohio (34b)
 Zwack, Anton, Inc., Dubuque, Iowa (14b)

(Numerals after names indicate the Chapter in which member belongs—See Key to Listing of A. G. C. Units—page 190). N—National Member (page 283). L—Local Member.

Roster by States

1. ALABAMA

(a) ALABAMA BRANCH

President—C. C. Wilborn, Wilborn Constr. Co., 830 2d Ave., No., Birmingham, Ala.
Executive Secretary—J. B. Rawls, 435 American Life Bldg., Birmingham 3, Ala.
Telephone: 4-5547-8

Allen, R. J., Contr. Co., P. O. Box 3881, Fairview, Birmingham 8, Ala. (B)
 Brasfield, Thos. C., 3025 6th Ave., Birmingham, Ala. (B)
 Brice Bldg. Co., Inc., 1021 2d Ave., No., Box 1028, Birmingham 1, Ala. (B)
 Buchanan, P. A., Contr. Co., 610 3d Ave., W., P. O. Box 1903, Birmingham, Ala. (B-Hvy)
 Burgess, A. E., Contr. Co., 5529 1st Ave., So., Birmingham, Ala. (H)
 Burke, J. P., 269 N. 4th St., Box 123, Gadsden, Ala. (B)
 Chapman Constr. Co., 709 S. Oates St., Dothan, Ala. (B)
 Coston, W. L., & Sons, 1st Natl. Bk. Bldg., Birmingham, Ala. (B)
 Couch Constr. Co., Dothan, Ala. (H-Hvy-RR)
 Daniel Constr. Co., P. O. Box 1511, Birmingham, Ala. (B)
 Daugelette, F. R., P. O. Box 1730, Birmingham, Ala. (B)
 Day & Richardson, 429 S. 24th St., Birmingham 5, Ala. (B)
 Dethlefs & Hannon, Anniston, Ala. (B)
 Dillard, J. E., & Sons, 2901 N. 19th St., Bessemer, Ala. (B)
 Donahoo, A. G., Contr. Co., 2810 3d Ave., So., Birmingham, Ala. (B)
 Donahoo, H. N., 2200 6th Ave., So., Birmingham, Ala. (B)
 Dunn Constr. Co., Inc., 2508 3d Ave., No., Birmingham 3, Ala. (B-H-Hvy-RR)
 Ellard Contr. Co., Inc., P. O. Box 35, Irondale Sta., Birmingham 10, Ala. (H-Hvy-RR)
 Foster & Creighton Co., P. O. Box 2469, Birmingham 1, Ala. (B-H)
 Hoar, F. R., & Son, Inc., 2808 19th Pl., So., Birmingham, Ala. (B)
 Hodges & Co., Inc., P. O. Box 998, Anniston, Ala. (H)
 Holley, J. F., 905 6th Ave., No., Birmingham, Ala. (B)
 Hooks, C. F., Rt. 13, Box 145-A, Birmingham, Ala. (B)
 Howton, W. C., Contr. Co., 3904 10th Ave., No., Birmingham, Ala. (H)
 Kershaw, C. G., Contr. Co., 2212 S. 20th Ave., Birmingham, Ala. (H)
 Lindstrom & Pattillo Engr. Co., Inc., 209 S. 18th St., Birmingham 3, Ala. (B)
 Morgan-Holloman Constr. Co., P. O. Box 434, Tuscaloosa, Ala. (B)
 Morris, W. E., 800 4th Ave., No., Birmingham, Ala. (B)
 Moss-Thornton Co., Inc., P. O. Box 82, Leeds, Ala. (H)
 Owens, J. B., 3900 E. Broadway St., Tampa, Fla. (Hvy)
 Paul, Ed., 1145 15th Way, S. W., Birmingham, Ala. (B)
 Paul, G. A., 14 Bonita Dr., Birmingham, Ala. (B)
 Perusini Constr. Co., 720 S. 28th Ave., Homewood, Ala. (B)
 Rives Constr. Co., 1015 7th Ave., So., Birmingham, Ala. (B)
 Roberts, Jack A., 1318 N. 23d St., P. O. Box 1890, Birmingham, Ala. (B)
 Smallman, Ralph A., & Co., Inc., 1109 5th Ave., Birmingham, Ala. (B)
 Sullivan, A. L., 3711 3d Ave., So., P. O. Box 3098, Avondale Sta., Birmingham, Ala. (B)
 Sullivan, Long & Hagerty, Inc., 800 4th Ave., No., Birmingham, Ala. (B-Hvy)
 Thompson & Street Co., 1831 7th Ave., So., Birmingham, Ala. (B)
 Warren Bros. Roads Co., 1419 1st Natl. Bldg., P. O. Box 549, Birmingham, Ala. (H)
 West, J. H., 4210 1st Ave., No., Birmingham 6, Ala. (B)
 Wilborn Constr. Co., 830 2d Ave., No., Birmingham, Ala. (B)
 Woolley, J. E., 304 Ridge Rd., Homewood, Birmingham, Ala. (B)

Mobile Section

President—J. F. Pate, J. F. Pate Constr. Co., P. O. Box 375, Mobile, Ala.
Secretary-Treasurer—Stanley W. Newman, Stanley W. Newman Co., Inc., P. O. Box 1565, Mobile, Ala.

Apfelbach, Henry J., 82½ St. Francis St., P. O. Box 202, Mobile 2, Ala. (B)
 Bay City Constr. Co., P. O. Box 1286, Mobile 7, Ala. (B)
 Bernard & Byrd, P. O. Box 1688, Mobile, Ala. (B-Hvy)
 Best, P. M., 52 DeMouy Ave., Mobile, Ala. (B)
 Bray, F. L., Constr. Co., P. O. Box 294, Mobile 2, Ala. (B)
 Cohron, H. V., 352 Cohron St., Crichton Sta., Mobile, Ala. (B)
 Conley Constr. Co., 1100 S. Conception St., Mobile, Ala. (B)
 Cropp, E. H., Constr. Co., 1508 Eslava St., Mobile 19, Ala. (B)
 Davis, T. H., 2508 O'sage St., Mobile 17, Ala. (B)
 Ernest Constr. Co., 1810 Old Shell Rd., Mobile 17, Ala. (Hvy)
 Ewin Engr. Corp., P. O. Box 361, Mobile 3, Ala. (B-H-Hvy)
 Gulf Constr. Co., 106 St. Anthony St., P. O. Box 358, Mobile 3, Ala. (B-Hvy)
 Hancock Co., 310 St. Michael St., P. O. Box 1515, Mobile, Ala. (H-Hvy)
 Harbert & Cargile, Inc., Washington Ave. at Monroe Pk., Mobile 21, Ala. (Hvy)

Higgison, Peyton, 59½ St. Francis St., P. O. Box 402, Mobile, Ala. (B)
 Jarrell, L. L., P. O. Box 116, Whistler, Ala. (H-Hvy-RR)
 Kimbrough Constr. Co., 65-A St. Francis St., P. O. Box 989, Mobile, Ala. (B)
 Massengale Cement Co., 187 Lyons Park Ave., Mobile 17, Ala. (B)
 Morrow, E. L., 269½ N. Royal St., Mobile, Ala. (B)
 Newman, Stanley W., Co., Inc., Merchants Natl. Bk. Bldg., P. O. Box 1565, Mobile, Ala. (B)
 Pate, J. F., Constr. Co., Annex 1st Natl. Bk. Bldg., P. O. Box 375, Mobile 3, Ala. (B)
 Roberts & Long, Merchants Bk. Bldg., Mobile, Ala. (B)
 Walker-Lewis Constr. Co., 58 St. Francis St., P. O. Box 703, Mobile, Ala. (B)
 Walton, J. S., & Co., P. O. Box 863, Mobile, Ala. (H-Hvy)
 White, Frank E., 301 N. Royal St., Mobile 16, Ala. (B)

Montgomery Section

President—W. K. Upchurch, W. K. Upchurch Constr. Co., Box 1189, Montgomery, Ala.
Secretary-Treasurer—Neil C. Andrew, Andrew & Dawson, 32 Clayton, P. O. Box 1301, Montgomery, Ala.

Andrew & Dawson, 32 Clayton, P. O. Box 1301, Montgomery, Ala. (B)
 Bear Bros., Inc., P. O. Box 1149, Montgomery, Ala. (B)
 Butler & Cobbs, 723 Bell Bldg., P. O. Box 1608, Montgomery, Ala. (B)
 Jones, A. Berney, 409 Monroe St., P. O. Box 1528, Montgomery, Ala. (B)
 Upchurch, W. K., Constr. Co., Box 1189, Montgomery, Ala. (B)

Local Member

Ewin Engr. Corp., P. O. Box 361, Mobile 3, Ala. (B-H-Hvy)

2. ARIZONA

(a) ARIZONA CHAPTER

President—D. W. Kelley, Arizona Sand & Rock Co., P. O. Box 596, Phoenix, Ariz.
Secretary—Joseph P. Condrey, 324 Luhrs Bldg., Phoenix, Ariz.
Telephone: 4-1818

Arizona Sand & Rock Co., P. O. Box 596, Phoenix, Ariz. (H-Hvy)
 Beall, I. G., P. O. Box 1453, Phoenix, Ariz. (H)
 Benton Contr. Co., 2800 S. Central, Phoenix, Ariz. (H)
 Bong, Clifford C., & Co., 123 N. 3d Ave., Arcadia, Calif. (H-Hvy-RR)
 Bowen & McLaughlin, P. O. Box 6037, 733 N. 19th Ave., Phoenix, Ariz. (H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

ARIZONA—Continued

Bradley & Dysart, 130 W. Merrill St., Phoenix, Ariz. (H)
 Buttress & McClellan, Inc., 1900 Beverly Blvd., Los Angeles 4, Calif. (B-H)
 Campbell, Clinton, Contrs., Inc., 1814 S. 7th Ave., Phoenix, Ariz. (B)
 Carney Constr. Co., 301 S. 30th St., Phoenix, Ariz. (H)
 Cockrill, Mark, Contr. Co., 1917 W. Grant St., Phoenix, Ariz. (Hvy)
 Cuddihy, Jos., 420 S. 3d Ave., Phoenix, Ariz. (B)
 Dail Constr. Co., P. O. Box 1846, Phoenix, Ariz. (H)
 Daley Constr.-Acme Materials Co., Box 1590, Phoenix, Ariz. (H-Hvy)
 Daum-Donaldson Constr. Co., 321 S. 24th St., Phoenix, Ariz. (B-Hvy)
 Duhamel, Elmer W., Constr. Co., 2250 E. Washington, Phoenix, Ariz. (B)
 Fisher Contr. Co., P. O. Box 4035, Phoenix, Ariz. (H-Hvy)
 Foley Bros., Inc., Phelps Dodge Bldg., Ajo, Ariz. (Hvy)
 Foskin & Olson, 2329 E. Brill, Phoenix, Ariz. (Hvy)
 Hagen, Harry J., Globe, Ariz. (H)
 Henson, W. J., Box 471, 817 Crest Ave., Prescott, Ariz. (H)
 Heuser & Garnett, 731 N. 19th Ave., Phoenix, Ariz. (H)
 Johnson Constr. Co., Box 4036, Tucson, Ariz. (H)
 Kelton, John C., & Son, 4525 N. 7th St., Phoenix, Ariz. (H)
 King-Hoover Constr. Co., 115 S. 30th St., Phoenix, Ariz. (Hvy)
 Kolob Constr. Co., P. O. Box 1832, Phoenix, Ariz. (H-Hvy)
 Larsen, A. A., P. O. Box 1572, Phoenix, Ariz. (H)
 Maddox, C. L., Box 1011, Phoenix, Ariz. (B)
 Mardian Constr. Co., 800 S. 23d Ave., Phoenix, Ariz. (B)
 Martin, R. H., P. O. Box 934, Tucson, Ariz. (H)
 McKee, Robt. E., P. O. Box 217, El Paso, Texas (B-Hvy)
 Murphey & Keith Bldg. Co., St. Philip's Plaza, P. O. Box 2267, Tucson, Ariz. (B)
 Newbery Elec. Corp. of Arizona, 2146 E. Washington, Phoenix, Ariz. (Hvy)
 Orr & Orr Constr. Co., 302 W. Monte Vista Rd., Phoenix, Ariz. (H-Hvy)
 Packard Contr. Co., 601 Luhrs Tower, Phoenix, Ariz. (H-Hvy)
 Payne, Dale, 2345 W. Thomas Rd., Phoenix, Ariz. (H)
 Phillips & Lusk Constr. Co., Inc., 2803 N. 7th Ave., Offices 5 & 8, Phoenix, Ariz. (B-Hvy)
 Phoenix-Tempe Stone Co., P. O. Box 1670, Phoenix, Ariz. (H-Hvy)
 Pinner, Arthur, Jr., 116 W. 94th St., Los Angeles, Calif. (H-Hvy)
 Pioneer Constrs., Inc., Box 2768, Tucson, Ariz. (H)
 Price, Lyle, P. O. Box 548, Flagstaff, Ariz. (H)
 Reliance Truck Co., P. O. Box 2293, Phoenix, Ariz. (H)
 Royden, H. L., P. O. Box 3707, Phoenix, Ariz. (H-Hvy)
 San Xavier Rock & Sand Co., P. O. Box 1031, Tucson, Ariz. (H)
 Skousen, J. E., 243 W. 1st Ave., Mesa, Ariz. (H)
 Skousen, W. R., P. O. Box 71, Mesa, Ariz. (H)
 Sundt, M. M., Constr. Co., P. O. Box 2592, Tucson, Ariz. (B-Hvy)
 Tanner, R. C., & Sons, 731 N. 19th Ave., Phoenix, Ariz. (H-Hvy)
 Tidmarsh Engr. Co., P. O. Box 2425, Tucson, Ariz. (B)
 Tiffany Constr. Co., P. O. Box 846, Phoenix, Ariz. (H-Hvy)
 Van Valkenburgh, N. P., Co., 8609 San Vincente Ave., South Gate, Calif. (H-Hvy)
 Ventura Engr. Co., 1502 W. Thomas Rd., Phoenix, Ariz. (B)
 Vinnell Co., Inc., 1145 Westminster Ave., Alhambra, Calif. (H-Hvy)
 Vinson Constr. Co., 2020 W. Grant Ave., P. O. Box 930, Phoenix, Ariz. (H-Hvy)
 Wallace & Wallace Contrs., P. O. Box 470, Phoenix, Ariz. (H)
 Warren-Southwest, Inc., 20900 S. Normandie Ave., P. O. Box 419, Torrance, Calif. (H)
 Wasielewski, E. J., 24 E. Glendale Ave., Phoenix, Ariz. (B)
 Webb, Del E., Constr. Co., P. O. Box 4066, Phoenix, Ariz. (B-Hvy)
 Welsh, J. H., & Son Contr. Co., 805 S. Central Ave., Phoenix, Ariz. (Hvy)
 Western Constrs., Inc., P. O. Box 1604, Phoenix, Ariz. (H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy)
 White, L. M., Contr. Co., P. O. Box 6008, Tucson, Ariz. (H)
 Winston Bros. Company, 1532 S. California Ave., Monrovia, Calif. (H-Hvy)
 Womack Constr. Co., Box 2414, Phoenix, Ariz. (B-Hvy)

3. ARKANSAS

(a) ARKANSAS CHAPTER

President—S. M. Dixon, Warren, Ark.
 Secretary-Treasurer—Ray Metzger, Urquhart Bldg., Box 2421, Little Rock, Ark.

Telephones: 9621 & 5-8643

Arney, Arthur J., 1503 Ohio St., Pine Bluff, Ark. (B)
 Bailey & Northum, Inc., 400 N. B St., Fort Smith, Ark. (B)
 Baldwin Co., The, 213 Wallace Bldg., Little Rock, Ark. (B)
 Bird, E. V., Constr. Co., Box 15, Fayetteville, Ark. (B)
 Bralet Homes, Inc., Box 109, North Little Rock, Ark. (B)
 Branton, M. O., Constr. Co., P. O. Box 2260, Little Rock, Ark. (B)
 Carty, Herman, 213 Riegler Bldg., Little Rock, Ark. (B)
 Coogan, Thos. P., Co., 1432 DuPont Bldg., Miami 32, Fla. (B)
 Davis, R. H., Box 36, Stamps, Ark. (H)

Ditmars-Dickmann-Pickens Constr. Co., Gazette Bldg., Little Rock, Ark. (B)
 Dixon, S. M., Warren, Ark. (H)
 Evans, S. E., Constr. Co., Box 903, Fort Smith, Ark. (H-Hvy-RR)
 Forsgren Bros., P. O. Box 368, Fort Smith, Ark. (H)
 Fraser, J. K., Constr. Co., Inc., P. O. Box 717, Fort Smith, Ark. (B)
 Garms, Grady, 29th & Elm Sts., P. O. Box 823, Little Rock, Ark. (H)
 Gregory, Artie, Box 1108, Little Rock, Ark. (H)
 Higgins, R. T., Co., P. O. Box 813, Hot Springs, Ark. (B)
 Hill, D. B., 619 Parker St., P. O. Box 2437, Little Rock, Ark. (H-RR)
 Hogan, Ben M., & Co., Box 2860, Little Rock, Ark. (H-Hvy)
 Jones, D. F., Constr. Co., Inc., Box 1365, Little Rock, Ark. (H-Hvy)
 Joyce & Wooten Constr. Co., 406 Wallace Bldg., Little Rock, Ark. (B)
 Keaton, W. W., Jr., 1409 Battery St., Little Rock, Ark. (H-Hvy)
 Knight, L. H., Co., 112½ E. 7th St., P. O. Box 1378, Little Rock, Ark. (B)
 Linebarger Constr. Co., 222 Scott St., Little Rock, Ark. (B)
 Little Rock Bldrs., Inc., 212 Spring St., Little Rock, Ark. (B)
 M & I Constr. Co., 207 Riegler Bldg., Little Rock, Ark. (H-Hvy)
 Mac's Bldrs., 120 E. 3d St., Little Rock, Ark. (B)
 May, G. W., Box 306, Little Rock, Ark. (B)
 McClinton Bros. Constr. Co., 310 Ozark Theatre Bldg., Box 749, Fayetteville, Ark. (Hvy)
 McGeorge Contr. Co., Inc., Box 995, Pine Bluff, Ark. (H-Hvy)
 Pyle, J. E., P. O. Box 387, Little Rock, Ark. (B)
 Reynolds & Williams, 115 N. Spring St., P. O. Box 1207, Little Rock, Ark. (H)
 Shaw Constr. Co., 227 State Natl. Bk. Bldg., Texarkana, Ark. (B)
 Smith, Linwood, Box 369, Lake Village, Ark. (H-Hvy-RR)
 Southeast Constr. Co., Inc., The, 127½ Main St., Pine Bluff, Ark. (H-Hvy)
 Tri-States Constr. Co., 316 Hall Bldg., Little Rock, Ark. (B)

4. CALIFORNIA

(a) CENTRAL CALIFORNIA CHAPTER

President—Harold O. Sjoberg, N. H. Sjoberg & Son, 5604 E. 16th St., Oakland 3, Calif.
 Secretary-Manager—Frank G. Corker, Chancery Bldg., 564 Market St., San Francisco 4, Calif.
 Telephone: Exbrook 2-6032

Acme Constr. Co., 827 13th St., Modesto, Calif. (B)
 Akard, W. C., 225 Cervantes Blvd., San Francisco 23, Calif. (B)
 Amoroso, S. J., Constr. Co., 2100 Oakdale Ave., San Francisco 24, Calif. (B-Hvy)

A.G.C. DIRECTORY

CALIFORNIA—Continued

- Anderson, O. E., 1075 N. 10th St., Box 251, San Jose, Calif. (B)
- Ashby & Opperman, P. O. Box 127, Bakersfield, Calif. (B)
- B. & R. Constr. Co., 110 Market St., San Francisco 11, Calif. (B)
- Bardell, Robt., 2733 Linden St., Oakland 12, Calif. (B)
- Barnes, Jos. L., 750 Folsom St., San Francisco 7, Calif. (B)
- Barrett & Hilp, 918 Harrison St., San Francisco 7, Calif. (B-Hvy)
- Beckett & Federighi, 1441 Franklin St., Oakland 12, Calif. (B-Hvy)
- Berlinger Corp., Inc., P. O. Box 716, Chico, Calif. (B)
- Bristol, Mark, 1973 Oakcrest Dr., Oakland 2, Calif. (B)
- Brunelli, Frank C., Co., 264 Clementina St., San Francisco 3, Calif. (B)
- Bryant, J. A., 1806 Capitol St., Vallejo, Calif. (B)
- Cahill Bros., Inc., 206 Sansome St., San Francisco 4, Calif. (B-Hvy)
- Campbell Constr. Co., 800 R St., Sacramento 2, Calif. (B-Hvy)
- Carlen Constr. Co., 163 Sutter St., San Francisco 4, Calif. (B)
- Carlsen, A. F., 660 El Camino Real, Salinas, Calif. (B)
- Carrico & Gautier, 365 Ocean Ave., San Francisco 12, Calif. (B-Hvy)
- Carroll, A. C., 130 College Ave., Modesto, Calif. (B)
- Central California Constr. Co., 116 Erie St., San Francisco 3, Calif. (B-Hvy)
- Christensen & Lyons, 3454 Harlan St., Oakland 8, Calif. (B-Hvy)
- Clinton Constr. Co., 923 Folsom St., San Francisco 7, Calif. (B-Hvy)
- Condick Co., 806 Hearst Ave., Berkeley 2, Calif. (B)
- Cullen & Cullen, 1890 Glen Ave., Merced, Calif. (B)
- Cullen, Russell A., Inc., 478 Jackson St., San Francisco 11, Calif. (B)
- Daley, Morris, Rm. 211, 1350 Howard Ave., Burlingame, Calif. (B)
- Dayton, Harry F., 129 Burney St., Modesto, Calif. (B)
- De Luca & Son, 1745 Filbert St., San Francisco 23, Calif. (B-Hvy)
- Dinwiddie Constr. Co., Inc., 210 Crocker Bldg., San Francisco 4, Calif. (B-Hvy)
- Donahue, E. J., 355 E. Market St., Salinas, Calif. (B)
- Dunn, Louis C., Co., The, 681 Market St., San Francisco 5, Calif. (B-Hvy)
- Dutro, Jas. A., 475 E. 2d Ave., Chico, Calif. (B)
- Early, Fred J., Jr. Co., Inc., 369 Pine St., San Francisco 4, Calif. (B-Hvy)
- Ehorn, Liston, 925 Jackson St., P. O. Box 328, Red Bluff, Calif. (B)
- Ellington, Thos., 2896 16th St., San Francisco 3, Calif. (B)
- Emco of San Francisco, 1020 Harrison St., San Francisco 3, Calif. (B)
- Engineers, Ltd., 225 Bush St., San Francisco 4, Calif. (B-Hvy)
- Erbentraut & Summers, 696 Pennsylvania Ave., San Francisco 7, Calif. (B-Hvy)
- Erickson Constr. Co., 1119 E. Bassettlaw Ave., North Sacramento, Calif. (B)
- F. & O. Corp., 6798 Mission St., Daly City, Calif. (B)
- Falasco, T., 958 J St., Los Banos, Calif. (B)
- Faull, Donald L., 304 California Ave., Santa Rosa, Calif. (B)
- Feibusch, T., Constr. Co., P. O. Box 32, Ukiah, Calif. (B)
- Fife & Stoddard, W. Biggs Rd., P. O. Box 186, Gridley, Calif. (B)
- Fisher, Alfred P., 300 Montgomery St., San Francisco 4, Calif. (B)
- Fitchett, Leslie, & Son, P. O. Box 1495, Merced, Calif. (B)
- Fitzmaurice, J. H., 2857 Hannah St., Oakland 8, Calif. (B-Hvy)
- Franceschi Constr. Co., 845 Marine Blvd., San Francisco, Calif. (B-Hvy)
- Freethy, Elmer J., 1432 Kearny St., El Cerrito, Calif. (B-Hvy)
- Geyer, Harold C., 787 Munras Ave., Box 1190, Monterey, Calif. (B-Hvy)
- Goodenough, Wells P., 49 Wells Ave., Box 120, Palo Alto, Calif. (B-Hvy)
- Gould Constr. Co., The, 680 Laurel St., San Carlos, Calif. (B)
- Graham & Jensen, P. O. Box 1208, Merced, Calif. (B)
- Gresham Constr. Co., Box 272, Santa Clara, Calif. (B)
- Hackbarth, Orlo C., & Sons, 720 Graham Hill Rd., Santa Cruz, Calif. (B)
- Harris & Fjeldheim, Inc., 1008 Alma St., Menlo Park, Calif. (B)
- Hathaway, E. A., & Co., 1098 S. 5th St., San Jose 12, Calif. (B)
- Hedahl-Martin Co., The, 501 Standish St., Redwood City, Calif. (B)
- Hopper, Alfred J., Co., 243 Langton St., San Francisco 3, Calif. (B)
- Horstmeyer, Wm., Co., 23 Mars St., San Francisco 14, Calif. (B)
- Hubbard & Son, 925 Columbia St., Turlock, Calif. (B)
- Indenco, 656 31st St., Oakland 9, Calif. (B)
- Jacks & Irvine, 620 Market St., San Francisco 4, Calif. (B-Hvy)
- Jenks, Paul L., Rt. 2, P. O. Box 1050, Grass Valley, Calif. (B)
- Johnson, Drake & Piper, Inc., 9009 San Leandro St., Oakland 3, Calif. (B-Hvy)
- Kelley & Peletz, 545 Francisco St., San Francisco 11, Calif. (B)
- King, M. J., Inc., 231 Franklin St., San Francisco 2, Calif. (B)
- Larsen, Ira H., Co., 64 S. Park, San Francisco 7, Calif. (B)
- Larsen & Larsen, Inc., 2455 Mason St., San Francisco 11, Calif. (B)
- Lena, Nat, 1174 19th St., Oakland 7, Calif. (B-Hvy)
- Lewis, Nelson T., P. O. Box 637, Hayward, Calif. (B)
- Lewis, R. C., Constr., Inc., 1815 Telegraph Ave., Oakland 12, Calif. (B-Hvy)
- Litchfield Constr. Co., 721 Francisco Blvd., San Rafael, Calif. (B)
- Little, Matthew A., 1 Grand View Ave., San Francisco 14, Calif. (B)
- Lynn, Willis F., 1040 Folger Ave., Berkeley 2, Calif. (B)
- Mackey, Edwin J., 720 Howe Ave., Sacramento 16, Calif. (B)
- May, Wilfred H., 1801 Notre Dame Ave., Belmont, Calif. (B)
- Mayfield, N. R., Tahoe City, Calif. (B)
- McCarthy, Robt., Co., 1050 Kirkham St., San Francisco 22, Calif. (B-Hvy)
- McCoy & Butler, Teegarden & Sutter St., Yuba City, Calif. (B)
- McGranahan, K. J., 120 Spring St., Santa Cruz, Calif. (B)
- McKittrick, E. S., Co., Inc., 610 16th St., Oakland 12, Calif. (B-Hvy)
- Midstate Constr. Co., 427 Bryant St., San Francisco 7, Calif. (B-Hvy)
- Millie, G. O., Constr. Co., Irwin & Lovell Sts., San Rafael, Calif. (B)
- Modern Bldg. Co., P. O. Box 635, Chico, Calif. (B)
- Monson Bros., 475 6th St., San Francisco 3, Calif. (B-Hvy)
- Moore & Roberts, 693 Mission St., San Francisco 5, Calif. (B-Hvy)
- Morton, Jas. P., Constr. Co., 33 Clay St., Placerville, Calif. (B)
- Nicholson, D. W., Corp., 1701 San Leandro Blvd., San Leandro, Calif. (B-Hvy)
- Norlie Constr. Co., 215 W. 2d St., Chico, Calif. (B)
- Odman, Arthur, P. O. Box 147, Fair Oaks, Calif. (B)
- Olsen, Walter L., 966 Sonoma Ave., Santa Rosa, Calif. (B)
- Oser, Harry J., Hobart Bldg., 582 Market St., San Francisco 4, Calif. (B-Hvy)
- Otto, C. A., 717 10th St., Marysville, Calif. (B)
- Overaa, C., & Co., Inc., 520 16th St., Richmond, Calif. (B)
- Pacific Bldrs., P. O. Box 1612, Salinas, Calif. (B-Hvy)
- Pacific Coast Bldrs., 2530 18th St., San Francisco 10, Calif. (B)
- Payne Constr. Co., 876 Harrison St., San Francisco 7, Calif. (B)
- Peterson, C. Norman, 2832 9th St., Berkeley 2, Calif. (B)
- Phillips, C. S., 139-A Redwood Hwy., No., Petaluma, Calif. (B)
- Pike & Hill, Diablo, Calif. (B)
- Prichard & Son, 522 H St., Modesto, Calif. (B)
- Prichard, Thos. J., Jr., 1606 Bremer Ave., Fresno, Calif. (B)
- Rademann-Giusto, 40 Ringold St., San Francisco 3, Calif. (B)
- Reese, Morrison W., 1262 Minnesota Ave., San Jose 10, Calif. (B)
- Robertson, H. W., Inc., 2917 T St., Sacramento 16, Calif. (B-Hvy)
- Rosewall, T. H., 544 Main St., Watsonville, Calif. (B)
- Rousseau, Oliver M., Co., 100 Belvedere Dr., Strawberry Hts., Mill Valley, Calif. (B-Hvy)
- Sartorio, Peter, 262 Clementina St., San Francisco 3, Calif. (B)
- Schell, Fred W., 41 Sutter St., San Francisco 4, Calif. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

Severinsen, Hans, Cienada Rd., Hollister, Calif. (B)
 Sjoberg, N. H., & Son, 5604 E. 16th St., Oakland 3, Calif. (B)
 Sommer, I. M., & Co., 593 Market St., San Francisco 5, Calif. (B)
 Standard Bldg. Co., 2222 19th Ave., San Francisco 16, Calif. (B)
 Starrett Brothers and Eken, Incorporated, 115-A Crespi Dr., San Francisco 27, Calif. (B-Hvy)
 Stead, Frank A., 1950 Addison St., Berkeley 4, Calif. (B)
 Stendell, Elvin C., 26th & Kansas Sts., San Francisco 10, Calif. (B)
 Stockholm, Chas., & Sons, 351 California St., San Francisco 4, Calif. (B)
 Swenson, Carl N., Co., 1095 Stockton Ave., P. O. Box 558, San Jose 4, Calif. (B-Hvy)
 Swinerton & Walberg Co., 225 Bush St., San Francisco 4, Calif. (B-H)
 Tait, W. C., 2300 Mason St., San Francisco 11, Calif. (B-Hvy)
 Todd, R. R., 915 Beaver St., Santa Rosa, Calif. (B)
 Tornell Constr. Co., 45 E. 6th St., Tracy, Calif. (B)
 Van Bokkelen-Cole Co., 955 22d St., Oakland, Calif. (B)
 Van Dalsem, V. F., 845 Plaza Dr., San Jose, Calif. (B)
 Watt, R. P., 2381 Fair Oaks Blvd., Sacramento, Calif. (B)
 White, Howard J., Inc., 44 Encina Ave., Palo Alto, Calif. (B)
 Williams & Burrows, Inc., 10 California Dr., Burlingame, Calif. (B-Hvy)
 Wisner & Miller, 730 N. California St., Lodi, Calif. (B)

(b) NORTHERN CALIFORNIA CHAPTER

President—Geo. C. Looz, Stolte, Inc., 8451 San Leandro St., Oakland 3, Calif.
Secretary-Manager—Winfield H. Arata, 785 Market St., San Francisco 3, Calif.
Telephone: Garfield 1-7107

Ace Excavators, 1020 44th Ave., Oakland 1, Calif. (H-Hvy)
 Alves, Eugene G., Rt. 1, Box 390, Pittsburg, Calif. (H-Hvy)
 Anderson Co., P. O. Box 1190, Visalia, Calif. (H-Hvy)
 Archibald, F. R., 718 Douglas Ave., Oakland 3, Calif. (Hvy)
 Archibald, J. O., 929 Shasta St., Redwood City, Calif. (H)
 Ariss-Knapp Co., 961 41st St., Oakland 8, Calif. (H-Hvy)
 Armstrong, J. R., 400 Central Ave., El Cerrito, Calif. (H-Hvy)
 Artukovich, P. & J., Inc., P. O. Box 785, Port Chicago, Calif. (Hvy)
 Arundel Corp., The, & L. E. Dixon Co., 409 S. California St., San Gabriel, Calif. (H-Hvy)

Associated Engrs., 3606 El Camino Real, Palo Alto, Calif. (H-Hvy)
 Associated Pipeline Welders, Inc., P. O. Box 563, Colma 25, Calif. (Hvy)
 Asta Constr. Co., P. O. Box 474, Rio Vista, Calif. (Hvy)
 Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif. (H-Hvy)
 Baldwin, Straub Corp., 26 Francisco Blvd., San Rafael, Calif. (B-H-Hvy)
 Ball, N. M., Sons, 685 Delaware St., Berkeley 10, Calif. (H-Hvy)
 Ball & Simpson, 685 Delaware St., Berkeley 10, Calif. (H-Hvy)
 Barbettini, E., 2251 Quesada Ave., San Francisco 24, Calif. (H-Hvy)
 Bares, Ted, Constr. Co., The, 900 73d Ave., Oakland 3, Calif. (Hvy)
 Barletta, Rocci, 1175 E. Santa Clara, San Jose, Calif. (B-Hvy)
 Bateman, J. C., Inc. 650 Stockton Ave., San Jose 11, Calif. (H-Hvy)
 Bates & Rogers Construction Corporation, Rm. 1122, 209 Post St., San Francisco 8, Calif. (Hvy-RR)
 Baun, Ted F., 324 Princeton, Fresno, Calif. (H-Hvy)
 Bechtel Corp., 220 Montgomery St., San Francisco 4, Calif. (B-H-Hvy)
 Bechtel, T. R., Constr. Co., 315 13th St., Oakland, Calif. (B-Hvy)
 Beerman & Jones, Sonora, Calif. (H)
 Bell, Ralph A., 901 S. Primrose Ave., Monrovia, Calif. (Hvy)
 Bergquist, Gus, 230 Cherry Ave., Auburn, Calif. (H-Hvy)
 Biasotti, Louis, & Son, 40 W. Clay St., Stockton 36, Calif. (H-Hvy)
 Bird Development Co., 414 E. Miner St., Stockton, Calif. (H-Hvy)
 Bishop, E. B., Orland, Calif. (H-Hvy)
 Bituminous Products & Application Co., 2122 Bryant St., San Francisco 10, Calif. (Hvy)
 Blair, Ben, 1218 Donnelly St., Burlingame, Calif. (H-Hvy)
 Blakeslee-Spierung Co., Palace Hotel, P. O. Box 667, Ukiah, Calif. (B-Hvy)
 Blomquist Oil Service, Inc., P. O. Box 431, Redwood City, Calif. (H)
 Bobo, Fabian, Rt. 1, Box 30, San Rafael, Calif. (H)
 Bormolini, Louis, & Son, P. O. Box 101, Novato, Calif. (B-H-Hvy)
 Bragato Paving Co., P. O. Box 308, San Carlos, Calif. (H)
 Branham & Branham, c/o Crannell Stage, Eureka, Calif. (B-Hvy)
 Breen, J. P., P. O. Box 183, Sacramento 1, Calif. (H-Hvy)
 Brennan, J. P., Zeis Bldg., Redding, Calif. (B-Hvy)
 Bressi & Bevanda Constrs., Inc., P. O. Box 439, North Hollywood, Calif. (Hvy-RR)
 Brighton Sand & Gravel Co., P. O. Box 2604, Sacramento 10, Calif. (H-Hvy)
 Brown-Ely Co., 7360 Schmidt Lane, P. O. Box 156, El Cerrito, Contra Costa County, Calif. (H-Hvy)
 Brown, M. W., Box 222, Redding, Calif. (H-Hvy)

Burman, John, & Sons, 2750 Harrison Ave., Eureka, Calif. (H-Hvy)
 Burnett Constr. Co., 159 W. Glenn St., P. O. Box 487, Coalinga, Calif. (Hvy)
 Butte Constr. Co., 693 Mission St., San Francisco 5, Calif. (H-Hvy)
 Butte Creek Rock Co., P. O. Box 512, Centerville Rd., Chico, Calif. (H-Hvy)
 Byers, R. W., P. O. Box 67, Redding, Calif. (Hvy)
 California Steel Prods. Co., Ind. Constr. & Maint. Div., Barrett Ave. & "A" St., Richmond, Calif. (Hvy)
 Campbell Constr. & Equip. Co., 465 10th St., San Francisco 3, Calif. (H-Hvy-RR)
 Cannon Constr. Co., P. O. Box 1947, Stockton, Calif. (H-Hvy)
 Cantrell, L. V., 1933 El Dorado Ave., Berkeley 7, Calif. (Hvy)
 Capital Co., 1 Powell St., San Francisco 2, Calif. (B-Hvy)
 Capps, Gordon L., P. O. Box 583, Stockton, Calif. (H-Hvy)
 Carden & Cox, 5740 64th St., Sacramento 17, Calif. (H-Hvy)
 Cardwell, Leo, Constr. Co., 530 Pacific Ave., Santa Cruz, Calif. (H-Hvy)
 Cecchetti & Son, 839 Union St., San Francisco 11, Calif. (B-H)
 Central State Constr. Co., Inc., 593 Market St., San Francisco 5, Calif. (B-Hvy)
 Chevreux, Joe, P. O. Box 65, Sta. A, Auburn, Calif. (H-Hvy)
 Chittenden & Chittenden, P. O. Box 246, Auburn, Calif. (H-Hvy)
 Clark, L. C., 422 Park Ave., Visalia, Calif. (H-Hvy)
 Clements & Co., P. O. Box 277, 775 Jackson St., Hayward, Calif. (H)
 Cleverdon Co., Inc., Rt. 1, Box 1, Lafayette, Calif. (H-Hvy)
 Clifford, R. G., Box 168, 33 El Camino Real, South San Francisco, Calif. (H-Hvy)
 Close Bldg. Supply, 721 C St., Hayward, Calif. (H)
 Clough, L. M., Co., 996 66th Ave., Oakland 3, Calif. (H-Hvy)
 Conduit Constr. Co., 3510 Peralta St., Oakland 8, Calif. (Hvy)
 Conner, Harvey E., P. O. Box 1012, Redwood City, Calif. (Hvy)
 Conner, J. L., Jr., Box 835, Eureka, Calif. (H)
 Corbett, Frank D., 99 N. 17th St., Sacramento 14, Calif. (B-Hvy)
 Crocco & Hanson, 1010 Tennessee St., Vallejo, Calif. (H-Hvy)
 Cunningham, Chas. L. Co., 334 S. Yosemite Ave., P. O. Drawer E, Oakdale, Calif. (B-Hvy)
 Dahms, O. R., Constr. Co., Rt. 7, Box 1143, Sacramento, Calif. (Hvy)
 daRozza & Ribal, Inc., P. O. Box 1727, Monterey, Calif. (B-H)
 Darrough, W. H., & Sons, P. O. Box 392, Live Oak Hwy., Yuba City, Calif. (H-Hvy)
 Delphia, John, P. O. Box 607, 14 N. 3d St., Patterson, Calif. (H-Hvy)
 Delta Constr. Co., P. O. Box 457, Rio Vista, Calif. (H-Hvy)
 Dinsmore, B. F., 2435 W. Main St., Alhambra, Calif. (B-Hvy)

A.G.C. DIRECTORY

CALIFORNIA—Continued

- Douglass & Woodhouse, P. O. Box 908, Redwood City, Calif. (H)
- Downer Co., Inc., 305 E. Weber St., Stockton 11, Calif. (H-Hvy)
- Draper, Archie, P. O. Box 266, 738 Main St., Red Bluff, Calif. (H-Hvy)
- Duncan-Harrelson Co., The, 530 W. Cutting Blvd., Richmond, Calif. (Hvy)
- Eaton & Smith, 715 Ocean Ave., San Francisco 12, Calif. (H-Hvy-RR)
- Edwards, Jas. J., 904 Elm St., San Carlos, Calif. (Hvy)
- Eichley Corp., 322 Monadnock Bldg., 681 Market St., San Francisco 5, Calif. (Hvy)
- Ely, I. J., Co., 665 Butterfield Rd., San Anselmo, Calif. (H)
- Emco of San Francisco, 1020 Harrison St., San Francisco 3, Calif. (B-H-Hvy)
- Engineered Fixture Systems, P. O. Box 203, Mountain View, Calif. (B-Hvy)
- Erickson, Phillips & Weisberg, 3341 Telegraph Ave., Oakland 9, Calif. (H-Hvy)
- Fairfield Trucking Co., Box 568, Fairfield, Calif. (H-Hvy)
- Farish, Robt. A., 50 Hawthorne St., San Francisco 5, Calif. (H)
- Far West Constr. Co., 2339 Judah St., San Francisco, Calif. (B-Hvy)
- Fay Improvement Co., 760 Market St., San Francisco 2, Calif. (H-Hvy)
- Ferguson Bros., 8923 San Leandro St., Oakland 3, Calif. (Hvy)
- Fogelberg, O. A., Mt. Diablo Blvd. & Elizabeth St., Lafayette 2, Calif. (Hvy)
- Forde, E. A., 640 Sir Francis Drake Blvd., San Anselmo, Calif. (H)
- Foster Wheeler Corp., P. O. Box 306, Point Richmond, Calif. (Hvy)
- France, Geo. E., P. O. Box 831, Visalia, Calif. (H)
- Francies Constr. Co., 1929 Sonoma Ave., Santa Rosa, Calif. (B-Hvy)
- Fredericksen & Kasler, 212 13th St., Sacramento, Calif. (H-Hvy)
- Fredrickson Bros., 1259 65th St., Emeryville 8, Calif. (B-H-Hvy)
- Fredrickson & Watson Constr. Co., 873 81st Ave., Oakland 3, Calif. (B-H-Hvy)
- French, Geo., Jr., Box 307, 2101 E. Weber St., Stockton, Calif. (H-Hvy-RR)
- Gallagher & Burk, Inc., 344 High St., Oakland, Calif. (H-RR)
- Gerwick, Ben C., Inc., 112 Market St., San Francisco 11, Calif. (H-Hvy)
- Giles, Robt. A., P. O. Box 1346, S. McKinley Ave., Stockton, Calif. (B-Hvy)
- Gist, John C., 1020 46th St., Sacramento 16, Calif. (Hvy)
- Granite Constr. Co., Box 900, Watsonville, Calif. (B-H-Hvy-RR)
- Guerin, R. B., & Co., P. O. Box 201, E. Grand Ave. & Harbor Way, South San Francisco, Calif. (H-Hvy)
- Haas, E. T., Co., 407 Harbor Blvd., P. O. Box 95, Belmont, Calif. (B-H-Hvy-RR)
- Haas & Rothschild, 274 Brannon St., San Francisco 7, Calif. (B-Hvy)
- Harkins Co., Inc., 3832 Brighton Ave., P. O. Box 1767, Oakland 4, Calif. (B-Hvy)
- Harmeling, Carl C., 1710 Mt. Diablo, Stockton, Calif. (H-Hvy)
- Harms Bros., 5261 Stockton Blvd., Sacramento 17, Calif. (H-Hvy)
- Harney, Chas. L., Inc., 575 Berry St., San Francisco 7, Calif. (H-Hvy)
- Harrington Constr. Co., 711½ E. Hazelton St., Stockton, Calif. (B-Hvy)
- Harris, J. Henry, 2657 9th St., Berkeley 2, Calif. (H)
- Helwig Constr. Co., 167 Morris Ave., Sebastopol, Calif. (B-H-Hvy)
- Heple, Earl W., 494 Delmas Ave., San Jose, Calif. (B-H-Hvy-RR)
- Huettig, Schromm & Bennett, P. O. Box 798, 300 Bryant St., Palo Alto, Calif. (H-Hvy)
- Hulse, Cecil K., 124 Bruton Lane, Woodland, Calif. (H-Hvy)
- Huntington Bros., 9 Lansdale Ave., San Anselmo, Calif. (H-Hvy)
- Immel, Lee J., 3030 San Pablo Ave., San Pablo, Calif. (H-Hvy)
- Independent Constr. Co., 741 50th Ave., Oakland 1, Calif. (B-H-Hvy-RR)
- Industrial Engrs. & Contrs., Inc., 711 Middle Waterway, Tacoma, Wash. (B-Hvy)
- Jenkins, M. A., & R. E. Hertel, 4521 15th Ave., Sacramento 17, Calif. (H-Hvy)
- Jensen & Pitts, 931 2d St., San Rafael, Calif. (H)
- Jenson, L. W., & A. E. Mangs, P. O. Box 7, Palo Alto, Calif. (Hvy)
- Johnson, A. C., & Sons, 25 6th St., Eureka, Calif. (B-Hvy)
- Johnson & Nelson, 117 San Anselmo Ave., San Anselmo, Calif. (H-Hvy)
- Jones, Lew, Constr. Co., 150 N. 28th St., San Jose, Calif. (H-Hvy)
- Jones, O. C., & Sons, Cedar & 4th Sts., Berkeley, Calif. (B-H-Hvy)
- Jones, W. B., Palo Cedro, Calif. (H-Hvy)
- Joseph, S. L., P. O. Box 369, Santa Rosa, Calif. (B-H)
- Justice-Dunn Co., 1260 59th St., Oakland 8, Calif. (H)
- Kaiser Engrs., Div. of Kaiser Inds., Inc., 1924 Broadway, Oakland 12, Calif. (Hvy)
- Keeble, Edw., Rt. 4, Box 64, San Jose, Calif. (H-Hvy)
- Kelley Bros., 3205 11th Ave., Sacramento 17, Calif. (H-Hvy)
- Kenworthy, C. V., Rt. 2, Box 654, Stockton, Calif. (H-Hvy)
- Kiewit, Peter, Sons' Co., Airport Rd. & Zachary Ave., Delano, Calif. (Hvy)
- Koller, Stanley H., 1694 Pomona St., Crockett, Calif. (H-Hvy)
- Lauritzen, H. F., P. O. Box 470, Pittsburg, Calif. (Hvy)
- Lee Constr. Co., 1575 Lake Chabot Rd., San Leandro, Calif. (H-Hvy)
- Lentz Constr. Co., 2416 Sutterville Rd., Sacramento 17, Calif. (H-Hvy)
- Lord & Bishop, P. O. Box 812, Sacramento 4, Calif. (H-Hvy-RR)
- Lowell, E. E., P. O. Box 148, Vallejo, Calif. (H-Hvy)
- Lowrie Paving Co., 1755 Evans Ave., San Francisco 24, Calif. (H)
- Lyles, W. M., Co., P. O. Box 495, Avenal, Calif. (Hvy)
- Lynch, M. J., 2251 Revere Ave., San Francisco 24, Calif. (H-Hvy)
- M. G. M. Constr. Co., P. O. Box 1056, Market St., Concord, Calif. (Hvy)
- M. J. B. Constr. Co., 322 Elks Bldg., Stockton 1, Calif. (H-Hvy)
- M & K Corp., 200 Financial Center Bldg., San Francisco 4, Calif. (B-H-Hvy-RR)
- Macal Improvement Co., Inc., Rt. 1, Box 99, Wilbur Ave., Antioch, Calif. (H-Hvy)
- MacClosky, Chas., Co., 112 Market St., San Francisco 11, Calif. (B-Hvy)
- Macco Constr. Co., Inc., Box 638, Brisbane, Calif. (H-Hvy)
- MacDonald, Young & Nelson, Inc., 351 California St., San Francisco 4, Calif. (B-H-Hvy-RR)
- Malfitano, M., & Son, Inc., P. O. Box 750, Pittsburg, Calif. (H-Hvy)
- Marks, Frank B., Jr., P. O. Box 668, Newman, Calif. (H-Hvy)
- Marks, Howard E., 203 Berwerdor St., Tracy, Calif. (H-Hvy)
- Marshall, S. A., P. O. Box 767, Quincy, Wash. (H-Hvy)
- Martin Bros., Inc., P. O. Box 5, Concord, Calif. (H-Hvy)
- Maurer, Fred J., & Son, 125 W. 5th St., Eureka, Calif. (B-Hvy)
- McAnulty, J. H., 382 E. 10th Ave., Chico, Calif. (B-Hvy)
- McBride & Britton, 445 E. Hawthorne St., Stockton 4, Calif. (Hvy)
- McCosker, A. J., Eastshore Hwy. & Cedar St., Berkeley 2, Calif. (H)
- McElderry, B. S., 2355 Virginia St., Berkeley 9, Calif. (Hvy)
- McEwen, A. R., P. O. Box 127, Willits, Calif. (H-Hvy)
- McFadden, Jos., & Son, P. O. Box 915, Palo Alto, Calif. (H)
- McGillivray Constr. Corp., Folsom Blvd. near 65th St., Sacramento, Calif. (H-Hvy)
- McGowan, M. B., Inc., 625 Market St., San Francisco 5, Calif. (Hvy)
- McGuire & Hester, 796 66th Ave., Oakland 3, Calif. (Hvy)
- Mehren, John G., 780 Ridgeley Dr., Campbell, Calif. (H)
- Mel Mar Co., 10616 S. Avalon Blvd., Los Angeles 3, Calif. (B-Hvy)
- Mercer-Fraser Co., 2d & Commercial Sts., Eureka, Calif. (B-H-Hvy-RR)
- Midwest Piping & Supply Co., Inc., 520 Anderson St., Los Angeles, Calif. (Hvy)
- Miles & Bailey, P. O. Box 1169, Madera, Calif. (H)
- Miller, A. L., 1715 7th St., Sacramento, Calif. (H-Hvy)
- Miller & Henkel, 930 Monte, Fresno, Calif. (H-Hvy)
- Mobilhome Corp. of America, The, 115 Inyo St., Bakersfield, Calif. (B-Hvy)
- Montgomery, T. M., P. O. Box 311, 985 Lincoln Way, Auburn, Calif. (H)
- Moore, P. J., & Son, P. O. Box 504, North Sacramento, Calif. (H-Hvy)
- Morgan Constr. Co., P. O. Box 904, Redding, Calif. (H-Hvy)
- Morrison-Knudsen Co., Inc., 1 Montgomery St., San Francisco 4, Calif. (B-H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

- Munn & Perkins, P. O. Box 1092, 801 S. Old 99 Hwy., Modesto, Calif. (H-Hvy)
- Murphy, Martin, Rt. 2, Box 894, Walnut Creek, Calif. (Hvy)
- Nomellini Constr. Co., 939 Marengo Rd., P. O. Box 542, Stockton, Calif. (B-Hvy)
- Northwestern Constr. Co., 3 Oliver St., San Francisco 25, Calif. (H-Hvy)
- Oakland Sewer Constr. Co., R.R. Box 282, Walnut Creek, Calif. (H-Hvy)
- O'Connor Bros., P. O. Box 630, 750 Madison St., Red Bluff, Calif. (B-H-Hvy)
- O'Connor, J. D., Constr. Co., Inc., 640 Sir Francis Drake Blvd., P. O. Box 338, San Anselmo, Calif. (B-H-Hvy)
- O'Hair, W. H., Co., 11th & Main Sts., P. O. Box 331, Colusa, Calif. (H-Hvy)
- Olympian Dredging Co., 525 Market St., San Francisco 5, Calif. (H)
- Pacific Bridge Co., 333 Kearny St., San Francisco 8, Calif. (H-Hvy-RR)
- Pacific Pavements Co., Ltd., 85 Barstow St., San Francisco 7, Calif. (H-Hvy)
- Pacific Pipeline & Engrs., Ltd., 225 Bush St., San Francisco 4, Calif. (Hvy)
- Parish Bros., P. O. Box 6, Benicia, Calif. (H-Hvy)
- Parker, H. Earl, Inc., 531 12th St., Marysville, Calif. (H-Hvy)
- Paroline, John B., E. Dunne Ave., Morgan Hill, Calif. (H-Hvy)
- Patterson, Geo. R., P. O. Box 2004, Stockton, Calif. (H-Hvy)
- Peira, U., & Son, 292 Ocean Ave., San Francisco 12, Calif. (H-Hvy)
- Peters, A. J., & Son, 410 N. 10th St., San Jose, Calif. (Hvy)
- Peterson, E. H., & Son, 5691 San Pablo Dam Rd., Richmond, Calif. (B-Hvy)
- Peterson, O. G., 511 Diehl Ave., San Leandro, Calif. (H-Hvy)
- Piazza, Leo F., Paving Co., 175 S. Montgomery St., San Jose 10, Calif. (H)
- Pine Flat Contrs., P. O. Box 278, Sanger, Calif. (Hvy)
- Piombo Constr. Co., 1571 Turk St., San Francisco 15, Calif. (H-Hvy)
- Pollock, Geo., Co., P. O. Box 903, Sacramento 5, Calif. (H-Hvy-RR)
- Pomeroy, J. H., & Co., Inc., 333 Montgomery St., San Francisco 4, Calif. (H-Hvy)
- Radtke, Wm., & Son, 40 Martin St., Gilroy, Calif. (B-Hvy)
- Railing, W. C., Woodland, Calif. (H)
- Raisch, A. G., Co., P. O. Box 458, San Rafael, Calif. (H-Hvy)
- Raisch, A. J., Paving Co., 900 W. San Carlos St., San Jose 10, Calif. (H-Hvy)
- Ransome Co., 4030 Hollis St., Emeryville 8, Calif. (H-Hvy)
- Rapp, Robt. M., Co., 705 Bennett Ave., Santa Rosa, Calif. (Hvy)
- Rapp, Wm. D., 705 Bennett Ave., Santa Rosa, Calif. (B-Hvy)
- Reeves, J. R., P. O. Box 1072, Sacramento 5, Calif. (H)
- Reid, A. R., Co., 2600 Oakdale Ave., San Francisco 24, Calif. (H-Hvy)
- Renz, Geo. C., Box 6, Hecker Pass Hwy., Gilroy, Calif. (B-Hvy)
- Rice Bros., Inc., 8th & Yuba St., P. O. Box 1489, Marysville, Calif. (H-Hvy)
- Richards, Gene, Inc., 165 N. H St., Fresno, Calif. (H-Hvy)
- Richter Bros., P. O. Box 1511, Oroville, Calif. (Hvy)
- Rogers Materials Co., P. O. Box 509, Madera, Calif. (H)
- Rolandi & Sutton, 617 Montgomery St., San Francisco, Calif. (B-Hvy)
- Ruby, H. W., 2851 Northrup Ave., Sacramento, Calif. (H-Hvy)
- Ruddy, M. J., & Son, 922 "J" St., Modesto, Calif. (H-Hvy)
- Schader, A. D., 164 Spear St., San Francisco 5, Calif. (H-Hvy-RR)
- Schulken & Butts, Inc., Drawer 71, Monterey, Calif. (B-H-Hvy)
- Shuper, M. E., Co., 203 Elks Bldg., Stockton, Calif. (B-Hvy)
- Sinnock, Pomeroy, 1770 N. Hunter St., Stockton, Calif. (H-Hvy)
- Siri, Arthur B., Inc., 1356 Cleveland Ave., Santa Rosa, Calif. (H)
- Smith, Frank W., Constr. Co., Box 726, San Mateo, Calif. (H-Hvy)
- Smith, Harold, 1725 Main St., St. Helena, Calif. (H-Hvy)
- Smith, L. C., 1st & R.R., San Mateo, Calif. (H-Hvy)
- Smith, Wm. A., Contr. Co. of California, P. O. Box 1506, Oakland, Calif. (Hvy-RR)
- Sondgroth Bros., 318 Sierra Vista Ave., Mountain View, Calif. (H-Hvy)
- Sorensen, Peter, 927 Arguello St., Redwood City, Calif. (B-Hvy)
- Spears Constr. Co., P. O. Box 1124, Modesto, Calif. (B-Hvy)
- Stacy, Geo. R., P. O. Box 457, Tulalake, Calif. (H-Hvy)
- Standard Materials Co., 1411 9th St., Modesto, Calif. (H)
- Standard Structures, Inc., 28 Francisco Blvd., San Rafael, Calif. (H-Hvy)
- Staring & Galbraith, 3432 Mirasol Ave., Oakland 5, Calif. (H)
- Steele, C. C., 3925 Franklin Blvd., Sacramento, Calif. (H-Hvy)
- Stephens Trucking Co., 39 E. Pine St., Stockton, Calif. (H-Hvy)
- Stockton Constr. Co., Inc., P. O. Box 2087, 639 W. Clay St., Stockton, Calif. (H-Hvy)
- Stolte, Inc., 8451 San Leandro St., Oakland 3, Calif. (B)
- Stone & Webster Engineering Corp., 235 Montgomery St., San Francisco 4, Calif. (B-Hvy)
- Stout, Geo., P. O. Box 983, 160 E. 23d St., Merced, Calif. (H-Hvy)
- Strizek, Jere, 2418 El Paseo Lane, Town & Country Village, Sacramento 15, Calif. (B-Hvy)
- Syar, C. M., P. O. Box 1431, Vallejo, Calif. (H-Hvy)
- Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
- Till, Archie L., P. O. Box 346, Yuba City, Calif. (H-Hvy)
- Tobin, Edwin J., 1000 Carleton St., Berkeley 2, Calif. (Hvy)
- Tout, J. R., Co., Inc., 1631 Home Ave., Fresno, Calif. (B-H-Hvy)
- Transocean Engr. Corp., 999 Llewelling Blvd., San Lorenzo, Calif. (Hvy)
- Triangle Constr. Co., 2440 Sutterville Rd., Sacramento, Calif. (B-Hvy)
- Tuttle, C. B., Co., 268 Belmont Ave., Long Beach 3, Calif. (Hvy)
- Tyson & Watters, Inc., P. O. Box 1914, Sacramento, Calif. (B-Hvy)
- Underground Constr. Co., 75th Ave. at San Leandro Blvd., Oakland 3, Calif. (Hvy)
- United Concrete Pipe Corp., Box 425, Baldwin Park, Calif. (H-Hvy)
- Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (B-H-Hvy-RR)
- Valley Paving & Constr. Co., Inc., P. O. Box 6, Pismo Beach, Calif. (H-Hvy)
- Valley Trenching Co., 215 Broadway, Fresno, Calif. (Hvy)
- Van Valkenburgh, N. P., & Co., P. O. Box 1192, Sacramento, Calif. (B-H-Hvy)
- Visalia Concrete Pipe Co., P. O. Box 1188, Visalia, Calif. (H-Hvy)
- Volpa Bros., 233 Nielsen Ave., Fresno, Calif. (H-Hvy)
- Walsh Construction Company, 785 Market St., San Francisco 3, Calif. (Hvy)
- Warren, Geo. T., 2708 Calhoun St., Alameda, Calif. (Hvy)
- Watkins, Ted, Linden, Calif. (H-Hvy)
- Weems, Gordon C., 206 S. Sonoma St., Wilcox, Calif. (B-Hvy)
- Wende, Geo., P. O. Box 1134, Oakdale, Calif. (H-Hvy)
- Westbrook & Pope, 2331 Fair Oaks Blvd., Rt. 9, Box 841, Sacramento 16, Calif. (H-Hvy-RR)
- Western Contracting Corporation, P. O. Box 801, Newman, Calif. (H-Hvy)
- Wood, Claude C., Co., Box 599, Lodi, Calif. (B-H-Hvy-RR)
- Wood, Clyde W., & Sons, Inc., 6900 Tujunga Ave., P. O. Box 620, North Hollywood, Calif. (B-H-Hvy)
- Young, F. E., 599 Colusa Ave., Berkeley, Calif. (H)
- Young, W. M., Rt. 2, Box 787, Parker & Whittier Aves., Tracy, Calif. (H-Hvy)

(c) SAN DIEGO CHAPTER

President—B. O. Larsen, 1340 E St., San Diego 12, Calif.
Manager—M. A. Mathias, 455-6 Spreckels Bldg., San Diego 1, Calif.
Telephone: Franklin 1321

- Anderson, L. C., Co., 3040 Hancock St., San Diego 10, Calif. (B)
- Barber, Walter H., 7309 El Cajon Ave., La Mesa, Calif. (Hvy)
- Butterfield, L. B., 2035 Main St., San Diego 2, Calif. (Hvy)
- Carpenter, O. L., 1102 Marino Blvd., San Diego 10, Calif. (B)
- Carroll & Foster, 2285 Newton Ave., San Diego 2, Calif. (H-Hvy)
- Chambers Steel Co., 2077 Kurtz St., San Diego 1, Calif. (B-Hvy)
- Cory & Longworth, Inc., 1975 5th Ave., San Diego 1, Calif. (B)
- Curry, J. C., 1701 B St., San Diego 12, Calif. (B)

CALIFORNIA—Continued

Daley Corp., Lock Box 67, N. Park Sta., San Diego 4, Calif. (H-Hvy)
 Dennis, V. R., Constr. Co., P. O. Box F, Hillcrest Sta., San Diego 3, Calif. (H-Hvy)
 Elliott, C. M., 1120 Atchison St., Pasadena 6, Calif. (B-Hvy)
 Ford, E. Paul, 5050 Market St., San Diego 5, Calif. (H-Hvy)
 Golden, M. H., Constr. Co., 3485 Noell St., San Diego 1, Calif. (B-Hvy)
 Griffith Co., P. O. Box G, Hillcrest Sta., San Diego 3, Calif. (B-H-Hvy)
 Grove, Cecil B., 3216 Island Ave., San Diego 2, Calif. (H)
 Hansen, John, 1489 Island Ave., San Diego 2, Calif. (Hvy)
 Harris, Sim J., Co., 1691 Hancock, San Diego 1, Calif. (H-Hvy)
 Hazard, R. E., Contr. Co., P. O. Box 1951, San Diego 12, Calif. (H-Hvy)
 Hortie, R. J., 2627 Boston Ave., San Diego 2, Calif. (B)
 Kier, W. E., Constr. Co., 461 Spreckels Bldg., San Diego 1, Calif. (B-H-Hvy)
 Larsen, B. O., 1340 E St., San Diego 12, Calif. (B-Hvy)
 Larsen, C. A., 2057 Kurtz St., San Diego 1, Calif. (B)
 National Steel & Shipbldg. Corp., Harbor Dr. at 28th St., San Diego 12, Calif. (B-Hvy)
 Nelson, W. F., Co., 1249 S. 32d St., San Diego 2, Calif. (Hvy)
 Nielsen Constr. Co., P. O. Box 1577, Old San Diego Sta., San Diego 10, Calif. (B-Hvy)
 Riha Constr. Co., 4859 El Cajon Blvd., San Diego 5, Calif. (B)
 Standard Iron Wks., Harbor Dr. at Beardsley St., San Diego 2, Calif. (Hvy)
 Stroud-Seabrook, P. O. 787, Chula Vista, Calif. (Hvy)
 Tavares Constr. Co., P. O. Box 569, La Jolla, Calif. (B-Hvy)
 Travelodge Corp., The, 3045 Moore St., San Diego 10, Calif. (B)
 Trepte Constr. Co., 2001 Kettner Blvd., San Diego 12, Calif. (B-Hvy)
 Young, F. E., Constr. Co., 2141 Main St., San Diego 12, Calif. (B-Hvy)

(d) SOUTHERN CALIFORNIA CHAPTER

President—Donald E. Reed, Stanton-Reed Co., 816 W. 5th St., Los Angeles 17, Calif.
Manager—W. D. Shaw, 707 Architects Bldg., 816 W. 5th St., Los Angeles 17, Calif.
Telephone: Madison 1381

ABC Constr. Co., Inc., 14346 S. Lakewood Blvd., Paramount, Calif. (Hvy)
 Akmadzich, P. J., Box 8, Sunland, Calif. (H)
 Al-Co Co., 5423 Flemish Village Lane, Los Angeles 27, Calif. (B)
 Aldous & Co., 8467 W. 3d St., Los Angeles 48, Calif. (B-Hvy)
 Alliance Constr. Co., 35 N. Raymond Ave., Pasadena, Calif. (B)

American Asphalt Paving Co., 1010 S. Shamrock Ave., Monrovia, Calif. (B-Hvy)
 American Pipe & Constr. Co., Box 3428, Terminal Annex, Los Angeles 54, Calif. (Hvy)
 Anasco Constr. Co., Inc., 2725 Atlantic Ave., Long Beach 6, Calif. (B-H-Hvy)
 Artukovich Bros., Inc., 16200 S. Atlantic Ave., Paramount, Calif. (H-Hvy)
 Artukovich, P. & J., Inc., 13305 S. San Pedro St., Los Angeles 3, Calif. (H-Hvy)
 Asphalt Paving Materials Co., 2120 Colorado Blvd., Rm. 2, Los Angeles 41, Calif. (H)
 Atkinson, Guy F., Co., P. O. Box 259, Long Beach 1, Calif. (B-H-Hvy)
 Baer, Paul M., & Son, 2400 Hyperion Ave., Los Angeles 27, Calif. (B)
 Bagnall, C. B., 1505 Border Ave., Torrance, Calif. (B-H-Hvy)
 Baker Bros., P. O. Box 971, Chico, Calif. (Hvy)
 Baker, Jack W., 1921 W. 32 St., Long Beach 10, Calif. (B-H-Hvy)
 Bakker Constr. Co., 2217 Mountain View, San Bernardino, Calif. (B)
 Ball, N. M., Sons, 1101 Westminster Ave., Alhambra, Calif. (H)
 Ball, N. M., Sons-Harms Bros., Earl Parker, Inc., P. O. Box 10008, Airport Sta., Los Angeles 45, Calif. (H)
 Bank Bldg. & Equip. Corp. of America, Mechanical Inst. Bldg., Suite 415, 57 Post St., San Francisco, Calif. (B)
 Barnes, Jas. I., Constr. Co., 1119 Montana Ave., Santa Monica, Calif. (B)
 Barnes, W. M., Co., 727 W. 7th St., Rm. 355, Los Angeles 14, Calif. (B-Hvy)
 Barnett, Pernel, 751 W. Chapman, Orange, Calif. (Hvy)
 Barrett & Hilp, 3671 W. 6th St., Los Angeles 5, Calif. (B-H-Hvy)
 Baruch Corp., 5655 Wilshire at Hauser, Los Angeles 36, Calif. (B-Hvy)
 Basich Bros. Constr. Co., 3850 S. San Gabriel Blvd., San Gabriel, Calif. (H-Hvy)
 Bechtel Corp., 3780 Wilshire Blvd., Los Angeles 5, Calif. (B-H-Hvy)
 Bent Constr. Co., 5359 Valley Blvd., Los Angeles 32, Calif. (Hvy)
 Beyer & Abrahamson, 315 W. 9th St., Los Angeles 15, Calif. (B)
 Biasotti, Louis, & Son, 40 W. Clay St., Stockton 36, Calif. (H-Hvy)
 Birger, Milton H., Co., 2117 Balsam Ave., Los Angeles 25, Calif. (B-H-Hvy)
 Blaw-Knox Constr. Co., P. O. Box 778, Pittsburgh 30, Pa. (B-Hvy)
 Bock Co., 1120 N. Las Palmas Ave., Los Angeles 38, Calif. (H-Hvy)
 Bong, Clifford C., & Co., 123 N. 3d Ave., Arcadia, Calif. (H-Hvy)
 Bosnyak, Bob, 3014 Worthen Ave., Los Angeles 26, Calif. (Hvy)
 Braun, C. F., & Co., 1000 S. Fremont Ave., Alhambra, Calif. (Hvy)
 Bressi & Bevanda Constrs., Inc., P. O. Box 439, North Hollywood, Calif. (H-Hvy)
 Brock, M. J., & Sons, Inc., 2894 Rowena Ave., Los Angeles 26, Calif. (B-Hvy)
 Brown, Chas. T., Co., 1955 6th St., San Fernando, Calif. (H-Hvy)

Burke & Reynolds Constr. Co., 1227 N. Avalon, P. O. Box 635, Wilmington, Calif. (B)
 Butterfield, C. R., Co., 1401 N. Caffey St., San Pedro, Calif. (H-Hvy)
 Buttress & McClellan, Inc., 1900 Beverly Blvd., Los Angeles 4, Calif. (B-H-Hvy)
 Callahan Constr. Co., 2788 Doresta Rd., San Marino 9, Calif. (B-H-Hvy)
 Calowell Constr. Co., 1835 E. Wardlow Rd., Long Beach 7, Calif. (H-Hvy)
 Camillo Bros. Dump Truck Co., 424 Fernando Ct., Glendale 4, Calif. (H-Hvy)
 Campbell & Rightmire, 3757 Wilshire Blvd., Los Angeles 5, Calif. (B)
 Carter, Geo. W., Co., 1721 W. Olympic Blvd., Los Angeles 15, Calif. (B)
 Case-Connelly Co., 2051 Del Amo Blvd., Compton, Calif. (H-Hvy)
 Case, V. D., Co., P. O. Box 515, Wilmington, Calif. (B-Hvy)
 Casey & Case Foundation Co., 5972 Atlantic Blvd., Maywood, Calif. (B-Hvy)
 Concrete Conduit Co., P. O. Box 31, Colton, Calif. (Hvy)
 Contracting Engrs. Co., The, 2310½ W. Vernon Ave., Los Angeles 43, Calif. (B-H-Hvy)
 Cook, S. J., & Son, 4508 W. Jefferson Blvd., Los Angeles 16, Calif. (B-H-Hvy)
 Covina Constr. Co., P. O. Box 385, Covina, Calif. (H)
 Crow, L. A. & R. S., 1234 S. Rosemead Blvd., El Monte, Calif. (H-Hvy)
 Crowell, Wm. C., Co., 170 E. California St., Pasadena 5, Calif. (B)
 Cummins, J. F., 245 E. Olive Ave., Burbank, Calif. (B)
 Curlett Constr. Co., 820 W. Esther St., Long Beach 6, Calif. (B)
 Daum, R. J., Constr. Co., 6803 West Blvd., Inglewood, Calif. (B)
 Davies, John R., 2131 Santee St., Los Angeles 11, Calif. (Hvy)
 Davies, Keusder & Brown, 4915 Exposition Blvd., Los Angeles 16, Calif. (B)
 Davis & Swartz, 1912 E. California Ave., Bakersfield, Calif. (H-Hvy)
 Deane, B. C., & Gunther & Shirley Co., 13401 Riverside Dr., Sherman Oaks, Calif. (B)
 Denni Corp., 736 N. Avalon Blvd., Wilmington, Calif. (H-Hvy)
 Dimmitt & Taylor, 128 W. Pomona Ave., Monrovia, Calif. (H-Hvy)
 Dixon, L. E., Co., 409 S. California St., San Gabriel, Calif. (B-H-Hvy)
 Dixon, Ralph O., Santa Margarita, Calif. (H)
 Doty Bros., 9936 E. Ramona Ave., Bellflower, Calif. (Hvy)
 Driver, C. W., Inc., 3416½ W. 1st St., Los Angeles 4, Calif. (B)
 Dunn, Louis C., Co., 3101 Wilshire Blvd., Los Angeles 5, Calif. (B-Hvy)
 Early, Fred J., Jr. Co., Inc., P. O. Box 114, Torrance, Calif. (B)
 Ehrhart & Arthur, Inc., 417 S. Hill St., Los Angeles 13, Calif. (Hvy)
 Eichelberger & Harwood, Inc., 240 26 St., Santa Monica, Calif. (B)
 Ellis, G. W., Constr. Co., 8240 Lankershim Blvd., North Hollywood, Calif. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

- El Rio Rock Co., P. O. Box 548, Ventura, Calif. (H)
- Emco Concrete Cutting Co. of Los Angeles, 2751 E. 11 St., Los Angeles 23, Calif. (Hvy)
- Emtman, Eric W., 3825 Vine St., Riverside, Calif. (B-Hvy)
- Engineers, Ltd., 605 W. Olympic Blvd., Los Angeles 14, Calif. (B)
- Erwin, R. A., P. O. Box 244, Colton, Calif. (B-Hvy)
- Escherich Bros., Inc., 645 S. Ave. 21, Los Angeles 31, Calif. (B)
- Fadel, Norman I., Box 206, North Hollywood, Calif. (H-Hvy)
- Ferry, Peter L., & Son, 5201 N. San Fernando Rd., Glendale 3, Calif. (Hvy)
- Fisher, Claude, Co., Ltd., 2455 E. 55th St., Los Angeles 11, Calif. (H)
- Fitzgerald Engr. & Constr. Co., 625 Rowan Bldg., Los Angeles 13, Calif. (B-Hvy)
- Fluor Corp., Ltd., The, 2500 S. Atlantic Blvd., Los Angeles 22, Calif. (B-Hvy)
- Foster & McHarg, 3610 8th St., Riverside, Calif. (H-Hvy)
- Foy, M. C., & Son, 6314 E. Whittier Blvd., Los Angeles 22, Calif. (B)
- Gallinger Constr. Co., P. O. Box 128, Gardena, Calif. (B)
- Goode & Schroeder, Inc., 3033 Treadwell St., Los Angeles 41, Calif. (H-Hvy)
- Goral & Meyer, 5190 W. Washington Blvd., Los Angeles 16, Calif. (B-Hvy)
- Gould & Cross, 19114 S. Vermont Ave., Gardena, Calif. (H)
- Grafe-Callahan Constr. Co. & Gunther & Shirley, 714 W. Olympic Blvd., Los Angeles 15, Calif. (H-Hvy)
- Grandy, E. F., P. O. Box 401, Laguna Beach, Calif. (B)
- Granite Constr. Co., P. O. Box 900, Watsonville, Calif. (B-Hvy)
- Green, Edw., Co., 3001 Coolidge Ave., Los Angeles 26, Calif. (H-Hvy)
- Gridley Constr. Co., P. O. Box 649, Oxnard, Calif. (B-Hvy)
- Griffith Co., 1060 S. Broadway, Los Angeles 15, Calif. (B-Hvy)
- Guerin Co., 208 S. Linden, P. O. Box 107, South San Francisco, Calif. (H-Hvy)
- Gunn Constr. Co., 2903 Beverly Blvd., Los Angeles 4, Calif. (B)
- Haas, E. T., Co., P. O. Box 6969, East Los Angeles 22, Calif. (Hvy)
- Haddock Engrs., Ltd., 1616 S. Greenwood Ave., P. O. Box 390, Montebello, Calif. (B-Hvy)
- Haddock, J. E., Ltd., P. O. Box 188E, Pasadena 8, Calif. (H-Hvy)
- Hahn-St. John, 219 N. Hawthorne Blvd., Hawthorne, Calif. (B)
- Hall, Guy E., P. O. Box 1723, Bakersfield, Calif. (B-Hvy)
- Hall, W. E., Constr. Co., Box 470, Alhambra, Calif. (H-Hvy)
- Halloran & Gill, 2931 Pierce Rd., Bakersfield, Calif. (H)
- Halper Constr. Corp., 739 N. Highland Ave., Los Angeles 38, Calif. (B)
- Halvorson Contrs., Box 307, Goleta, Calif. (B-Hvy)
- Harvey Constr. Co., 1147 E. Garvey Ave., El Monte, Calif. (H)
- Harvey & Rose, 11 N. 5th Ave., Arcadia, Calif. (B-Hvy)
- Hasler, M. H., Constr. Co., P. O. Box 387, Santa Ana, Calif. (H-Hvy)
- Hensler Constr. Corp., 7550 Wheatland Ave., Sun Valley, Calif. (H)
- Hermann Co., 417 S. Hill St., Rm. 423, Los Angeles 13, Calif. (B)
- Herz, Geo., & Co., P. O. Box 191, San Bernardino, Calif. (B-H)
- Herz Paving Co., 234 S. E. St., San Bernardino, Calif. (B-H)
- Hoagland-Findlay Engr. Co., 3254 Cherry Ave., Long Beach 7, Calif. (B-Hvy)
- Hogan Co., The, 3400 Arlington Ave., Riverside, Calif. (B-Hvy)
- Homes of Tomorrow, Inc., 3211 Newton St., Torrance, Calif. (B)
- Hongola & Elliott Constr. Co., P. O. Box 157, Norwalk, Calif. (Hvy)
- Hood Constr. Co., Ltd., 3002 E. Century Blvd., Lynwood, Calif. (Hvy)
- Hudson Constr. Co., 1277 W. 24 St., Los Angeles 7, Calif. (B)
- Industrial Engrs., Inc., 817 E. 59th St., Los Angeles 1, Calif. (B-Hvy)
- Irish, E. A., 2944 Gleneden St., Los Angeles 26, Calif. (Hvy)
- Izzi, Michael, 1033 Arden Dr., Temple City, Calif. (B-Hvy)
- J. & B. Constr. Co., 5572 Valley Blvd., Los Angeles 32, Calif. (B)
- Jamison, E. J., 115 W. 17 St., Los Angeles 15, Calif. (B-Hvy)
- Johnson, J. Walter, 5205 Hollywood Blvd., Los Angeles 27, Calif. (B-Hvy)
- Johnson Western Co., P. O. Box 6, San Pedro, Calif. (B-Hvy)
- Kaiser, E. A., Co., Inc., 8825 Olympic Blvd., Beverly Hills, Calif. (B)
- Kaiser Engrs., Div. of Kaiser Inds., Inc., 1924 Broadway, Oakland 12, Calif. (B-Hvy)
- Kaucher, Walter, 9880 W. Pico Blvd., Los Angeles 35, Calif. (B-Hvy)
- Keller, H. M., Co., 2311 Empire St., Burbank, Calif. (B-Hvy)
- Kemp Bros., 8750 Mettler St., Los Angeles 3, Calif. (B-Hvy)
- Kemper, M. F., Constr. Co., 3701 Overland Ave., Los Angeles 34, Calif. (H-Hvy)
- Kerns, G. E., 5574 Atlantic Ave., Long Beach 5, Calif. (H-Hvy)
- Key Contrs., Inc., Box 356, Santa Fe Springs, Calif. (B-Hvy)
- Kier, W. E., Constr. Co., 1462 N. Stanley Ave., Los Angeles 46, Calif. (B-Hvy)
- Kiewit, Peter, Sons' Co., 345 Kieways Ave., Arcadia, Calif. (B-Hvy)
- Klarquist, John A., 618 S. Western Ave., Los Angeles 5, Calif. (B)
- Kleinsmid Constr. Co., P. O. Box 971, Bakersfield, Calif. (H)
- Koller, Stanley H., Constr., 1694 Pomona St., Crockett, Calif. (Hvy)
- L. A. Paving Co., 3700 S. Soto St., Los Angeles 11, Calif. (H)
- Lane, Richard M., 4719 Exposition Blvd., Los Angeles 16, Calif. (B)
- Larson & McCarthy, 805 Garfield Ave., South Pasadena, Calif. (B-Hvy)
- Lewis & Queen, P. O. Box 10038, Airport Sta., Los Angeles 45, Calif. (H-Hvy)
- Liberty Bldg. Co., 5548 Arbor Vitae St., Los Angeles 45, Calif. (B)
- Lindgren & Swinerton, Inc., 605 W. Olympic Blvd., Los Angeles 15, Calif. (B-Hvy)
- Livingston Truck & Materials Co., 3366 Cherry Ave., Long Beach 7, Calif. (B-Hvy)
- Lorber, Melvin, 7458 Beverly Blvd., Los Angeles 36, Calif. (B)
- MacCloskey, Chas., Co., 808 S. Vermont Ave., Los Angeles, Calif. (H-Hvy)
- Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif. (H-Hvy)
- MacDonald, Young & Nelson, Inc., 351 California St., San Francisco 4, Calif. (B-Hvy)
- MacIsaac & Menke Co., 3440 E. 14th St., Los Angeles 23, Calif. (B-Hvy)
- MacMen, Inc., 3440 E. 14th St., Los Angeles 23, Calif. (Hvy)
- Madonna Constr. Co., P. O. Box 910, San Luis Obispo, Calif. (H-Hvy)
- Maguire, J. C., & Co., Architects Bldg., Los Angeles 17, Calif. (Hvy)
- Manderbach Constr. Co., 1837 Victory Blvd., Glendale 1, Calif. (B)
- Mathews Constr. Co., 1100 Westminster St., Alhambra, Calif. (H-Hvy)
- Matich Bros., P. O. Box 390, Colton, Calif. (H-Hvy)
- McClain Constr. Co., Inc., 570 N. Prairie Ave., Hawthorne, Calif. (H-Hvy)
- McDowell Constr., Victorville, Calif. (B)
- McKee, Robt. E., Gen. Contr., Inc., P. O. Box 350, Glendale 26, Calif. (B-Hvy)
- McKintick, E. S., Co., Inc., P. O. Box 470, Huntington Park, Calif. (B-Hvy)
- McNeil, J. A., Co., 714 W. Olympic Blvd., Los Angeles 15, Calif. (B)
- Mecham, M. S., & Sons, 11125 Garfield Ave., South Gate, Calif. (H)
- Mel Mar Co., 10616 S. Avalon Blvd., Los Angeles 3, Calif. (B-Hvy)
- Merrill, Ted F., & Sons, 911 E. Redondo Blvd., Inglewood, Calif. (B)
- Miller, Geo., Constr. Co., 3032 Bandini Blvd., Los Angeles 23, Calif. (Hvy)
- Miller & Miller, 4863 W. Washington Blvd., Los Angeles 16, Calif. (B-Hvy)
- Mitty Bros. Constr. Co., 4801 San Fernando Rd., W., Los Angeles 39, Calif. (H-Hvy)
- Modern Bldrs. Constr. Co., Inc., 2812 Long Beach Blvd., Long Beach 6, Calif. (B-Hvy)
- Montank & Son, 5142 Onacrest Dr., Los Angeles 43, Calif. (H)
- Montgomery, J. M., & Co., Inc., 900 S. Robertson Blvd., Los Angeles 35, Calif. (B-Hvy)
- Morrison-Knuksen Co., Inc., 411 W. 5th St., Los Angeles 13, Calif. (B-Hvy)
- Myers Bros., 3407 San Fernando Rd., Los Angeles 65, Calif. (B-Hvy)
- Nappe Constr. Co., Inc., 1201 N. Keystone St., Burbank, Calif. (H-Hvy)
- Newbery Elec. Corp., 1038 Venice Blvd., Los Angeles 15, Calif. (Hvy)
- Nicholas, K. B., P. O. Box 551, 720 N. Vine, Ontario, Calif. (B-Hvy)

CALIFORNIA—Continued

- Nichols, Harvey A., 926 E. Slauson Ave., Los Angeles 11, Calif. (B)
- Nicholson, H. B., 117 E. Colorado St., Pasadena 1, Calif. (B-Hvy)
- Nigg Engr. Co., 545 N. 2d St., Covina, Calif. (B)
- Normac, Inc., P. O. Box 470, Huntington Park, Calif. (B)
- Nottingham, M. C., Co., 123 N. Cloverly Ave., Temple City, Calif. (Hvy)
- Oberg Bros. Constr. Co., Box 640, Inglewood, Calif. (H-Hvy)
- O'Brien & Bell Constr. Co., 10932 State Hwy. 101, P. O. Box 427, Anaheim, Calif. (H)
- Odell, L. W., 1265 Sierra Madre Blvd., San Marino 9, Calif. (B)
- Ofeco Constr. Co., Inc., and/or Oil Field Constr. Co., 2650 Cherry Ave., Long Beach 6, Calif. (B-Hvy)
- Olerich, Walter F., 8116 W. 3d St., Los Angeles 36, Calif. (B-H-Hvy)
- Olson, F., 1937 W. Florence Ave., Los Angeles 44, Calif. (B)
- Oltmans Constr. Co., 810 E. 18th St., Los Angeles 21, Calif. (B-Hvy)
- Osborn Co., 3200 Edgely Lane, Pasadena 8, Calif. (H)
- Oswald Bros., 366 E. 58th St., Los Angeles 11, Calif. (H)
- Owl Truck & Constr. Co., 420 S. Alameda St., P. O. Box 509, Compton, Calif. (H-Hvy)
- Pacific Contr. Corp., 130 Linden Ave., Long Beach 2, Calif. (B-H-Hvy)
- Pacific Crane & Rigging, Inc., 6800 S. Alameda, Los Angeles 1, Calif. (H-Hvy)
- Pacific Pipeline Constr. Co., 1632 S. Greenwood Ave., Montebello, Calif. (Hvy)
- Page Corp. & T. M. Page, 145 W. Duarte Rd., Monrovia, Calif. (H-Hvy)
- Parkhill-Wade, Box 6877, E. Los Angeles Br., Los Angeles 22, Calif. (B-Hvy)
- Parsons, Ralph M., Co., The, 617 S. Olive St., Los Angeles 14, Calif. (B-H-Hvy)
- Pavement Planing Co., 4338 Sunset Blvd., Los Angeles, Calif. (H)
- Payne, G. J., 6810 Crenshaw, Los Angeles 43, Calif. (H-Hvy)
- Pecel, B., & Sons, 11751 Vose St., North Hollywood, Calif. (Hvy)
- Peck, C. L., 407 Architects Bldg., 816 W. 5th St., Los Angeles 17, Calif. (B)
- Peterson, Geo. W., 6170½ Santa Monica Blvd., Los Angeles 38, Calif. (B-H)
- Pickard Constr. Co., 2190 E. Willow St., Long Beach 6, Calif. (H-Hvy)
- Pipe Line Constrs., P. O. Box 97, Bakersfield, Calif. (H)
- Pollock, Geo., Co., Box 903, Sacramento 5, Calif. (B-H-Hvy)
- Pozzo Constr. Co., Ltd., 2403 Riverside Dr., Los Angeles 26, Calif. (B)
- Price, Vido S., & Glenn Graham, 2901 Worthen Ave., Los Angeles 26, Calif. (H)
- Price, H. C., Co., Union Natl. Bk. Bldg., Bartlesville, Okla. (Hvy)
- Pugh Constr. Corp., 1525 N. Gaffey St., San Pedro, Calif. (B-H-Hvy)
- Quinn & Conant, 8474 W. 3d St., Los Angeles 36, Calif. (B)
- Radich & Fergusson, Inc., 3000 Empire Ave., Burbank, Calif. (H-Hvy)
- Radkovich, Wm., Co., 4920 E. Washington, Los Angeles 22, Calif. (H-Hvy)
- Rados, Steve P., 2975 San Fernando Rd., Los Angeles 41, Calif. (H-Hvy)
- Ramljak, M., 3001 Worthen Ave., Los Angeles 26, Calif. (Hvy)
- Rand Constr. Co., P. O. Box 1339, Bakersfield, Calif. (H-Hvy)
- Remmet Constr. Co., Box 878, Palo Alto, Calif. (B)
- Rexroth & Rexroth, P. O. Box 1138, Bakersfield, Calif. (H)
- Reynolds, Roland T., Rt. 4, 8751 Sunkist, Anaheim, Calif. (H-Hvy)
- Rhoades Bros. & Shofner, 3869 Medford St., Los Angeles 33, Calif. (H-Hvy)
- Rice Bros., Inc., 8th & Yuba St., P. O. Box 1489, Marysville, Calif. (H)
- Robertson, Alex. Co., 14433 S. Paramount Blvd., Paramount, Calif. (Hvy)
- Robertson, W. E., & Co., 4015 W. Jefferson Blvd., Los Angeles 16, Calif. (B-H)
- Ross, Matthew S., 4011 Goodwin Ave., Los Angeles 26, Calif. (H-Hvy)
- Rounds, Chas. J., 5162 Ellenwood Dr., Los Angeles 41, Calif. (H)
- Saliba, N. M., Co., P. O. Box 1673, Wilshire-LaBrea Sta., Los Angeles 36, Calif. (B-H-Hvy)
- Schmidt Bros., 1389 Gladys Ave., Long Beach 4, Calif. (H-Hvy)
- Schroeder & Co., Inc., 8140 Tujunga, Box 308, Roscoe, Calif. (H-Hvy)
- Sharp & Fellows Constr. Co., 533 Central Bldg., Los Angeles 14, Calif. (B-H-Hvy)
- Shaw, Donald F., 1901 Blake Ave., Los Angeles 26, Calif. (B)
- Shea Co., The, 2801 W. Mission Rd., Alhambra, Calif. (Hvy)
- Shelby, Peter P., 4414 W. Jefferson Blvd., Los Angeles 16, Calif. (B)
- Silva & Hill Constr. Co., 5575 Valley Blvd., Los Angeles 32, Calif. (H)
- Simpson, Wm. A., Constr. Co., The, 816 W. 5th St., Los Angeles 17, Calif. (B)
- Siple, Edw. R., Co., 2545 San Fernando Rd., Los Angeles 41, Calif. (B-Hvy)
- Smith, Ben F., Co., 333 S. Rosemead Blvd., Pasadena 8, Calif. (B-Hvy)
- Smith, H. C., Co., 718 E. 16th St., Los Angeles 21, Calif. (B-H-Hvy)
- Smith, W. C., of California, Inc., 2119 Pacific Ave., Long Beach 2, Calif. (B)
- Southwest Paving Co., P. O. Box 338, Roscoe, Calif. (H)
- Southwestern Engr. Co., 4800 Santa Fe Ave., Los Angeles 11, Calif. (B-Hvy)
- Sparks, C. O., & Mundo Engr. Co., Inc., 2727 E. Washington Blvd., Los Angeles 23, Calif. (H-Hvy)
- Spencer, Paul, 151 N. Acacia, San Dimas, Calif. (B)
- Spicer Co., P. O. Box 8383, W. Adams Sta., Los Angeles 16, Calif. (H-Hvy)
- Standard Dredg. Corp., 800 Central Bldg., Los Angeles 14, Calif. (Hvy)
- Stanfield, T. A., 896 E. Base Line, San Bernardino, Calif. (B)
- Stanton-Reed Co., 816 W. 5th St., Los Angeles 17, Calif. (B)
- Starrett Brothers and Eken, Incorporated, 6120 W. 3d St., Los Angeles 36, Calif. (B-Hvy)
- State Constr. Co., 3248 Long Beach Ave., Los Angeles 11, Calif. (Hvy)
- Steed Bros., Box 350, Alhambra, Calif. (B)
- Stolte, Inc., 3156 Wilshire Blvd., Los Angeles 5, Calif. (B-H-Hvy)
- Stone & Webster Engineering Corp., Edison Bldg., Los Angeles 17, Calif. (Hvy)
- Stronach, Stewart J., & Assos., Inc., 8811 Alden Dr., Los Angeles 36, Calif. (B)
- Sully-Miller Contr. Co., 1500 W. 7th St., Long Beach 6, Calif. (H)
- Summerbell Roof Structures, 825 E. 29th St., Los Angeles 11, Calif. (B-H)
- Swigart, John J., P. O. Box 597, Torrance, Calif. (B-H)
- T-S Constr. Engrs., Inc., 600 St. Paul Ave., Los Angeles 14, Calif. (B)
- Tate Pipe Linings, Inc., 47 Haverhill St., Andover, Mass. (Hvy)
- Taylor & Kretz, 3590 Buchanan St., P. O. Box 16, Arlington, Calif. (B)
- Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
- Thomas Cos., Inc., 2486 Huntington Dr., San Marino, Calif. (B)
- Thomas Constr. Co., 2009 W. Burbank Blvd., Burbank, Calif. (H-Hvy)
- Thompson, J. A., & Son, P. O. Box 518, Inglewood, Calif. (H-Hvy)
- Tomei Constr. Co., 4737 Orion St., Van Nuys, Calif. (H-Hvy)
- Triangle Rock & Gravel Co., P. O. Box 250, San Bernardino, Calif. (H-Hvy)
- Trousdale Constr. Co., 650 N. Sepulveda Blvd., Los Angeles 24, Calif. (B)
- Tuttle, C. B., Co., 268 Belmont Ave., Long Beach 3, Calif. (Hvy)
- Twaits, Ford J., Co., 449 S. Beaudry St., Los Angeles 17, Calif. (B-H-Hvy)
- United Concrete Pipe Corp., Box 425, Baldwin Park, Calif. (H-Hvy)
- United Construction Co., Pier E, Terminal Island, P. O. Box 1887, Long Beach, Calif. (B-Hvy)
- United States Constr. Corp., 111 E. Chartres St., Anaheim, Calif. (B-H)
- Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (B-H-Hvy)
- Utility Constr. Co., 9630 Atlantic Blvd., South Gate, Calif. (Hvy)
- Valley Paving & Constr. Co., Inc., P. O. Box 6, Pismo Beach, Calif. (H-Hvy)
- Van Valkenburgh, N. P., 8609 San Vincente Ave., South Gate, Calif. (Hvy)
- Vernon Paving Co., Box 368, Vernon Branch 11, Calif. (H)
- Vinnell Co., Inc., 1145 Westminster Ave., Alhambra, Calif. (B-H-Hvy)
- Vlaeich, Robt., 2901 Worthen Ave., Los Angeles 39, Calif. (H-Hvy)
- Waale, Camplan Co. of Los Angeles, 4860 Valley Blvd., Los Angeles 32, Calif. (B-H-Hvy)
- Walker, P. J., Co., 3900 Whiteside Ave., Los Angeles 33, Calif. (B-H-Hvy)
- Walsh Construction Company, 785 Market St., San Francisco 3, Calif. (B-H-Hvy)
- Walsh, T. H., & Argo Engr. Co., 4017 Medford St., Los Angeles 33, Calif. (H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CALIFORNIA—Continued

Warren-Southwest, Inc., P. O. Box 419, 20900 S. Normandie Ave., Torrance, Calif. (H-Hvy)
 Waters, Ed, 14115 Bessemer St., Van Nuys, Calif. (H-Hvy)
 Wattson, R. A., Co., 5528 Vineland Ave., North Hollywood, Calif. (H-Hvy)
 Webb, Del E., Constr. Co., 5101 San Fernando Rd., W., Los Angeles 39, Calif. (B-Hvy)
 Webb & White, 7220½ Melrose Ave., Los Angeles 46, Calif. (H-Hvy)
 West & Douglas, 1127 E. Green St., Pasadena 1, Calif. (B-Hvy)
 Western Motor Transfer, Inc., 118 State St., Santa Barbara, Calif. (H-Hvy)
 Western U. S. Constr. Co., 13314 Van Nuys Blvd., Pacoima, Calif. (B)
 Wilcox, Jack, P. O. Box 448, Huntington Park, Calif. (H)
 Willard-Brent Co., 254 E. 27th St., Los Angeles 11, Calif. (B)
 Willis, C. G. & Sons, Inc., 2119 E. 25th St., Los Angeles 11, Calif. (H-Hvy)
 Willson, Jack, 7111 Rio Flora Pl., Downey, Calif. (B-Hvy)
 Wilmington Constr. Co., 727 W. 7th St., Los Angeles 14, Calif. (H-Hvy)
 Winston Bros. Company, 1532 S. California Ave., Monrovia, Calif. (H-Hvy)
 Wohl-Calhoun Co., 845 N. Highland Ave., Los Angeles 38, Calif. (B)
 Wonderly Constr. Co., 2694 Lime Ave., Long Beach 6, Calif. (H-Hvy)
 Wood, Clyde W., & Sons, Inc., 6900 Tujunga Ave., P. O. Box 620, North Hollywood, Calif. (B-H-Hvy)
 Yeager, E. L., P. O. Box 87, Riverside, Calif. (H-Hvy)
 Young, J. E., Pipeline Contr., Inc., 931 E. Rosecrans Ave., Los Angeles 2, Calif. (Hvy)

CAROLINAS BRANCH

See 32a

5. COLORADO

(a) COLORADO BUILDING CHAPTER

President—James R. Howell, Jas. R. Howell & Co., 1030 W. 6th Ave., Denver, Colo.
Executive Secretary—Don S. MacDougall, 1421 Court Pl., Denver, Colo.
Telephone: Alpine 6604
 Bate, Thos., & Sons Co., 2311 10th St., Denver, Colo. (B)
 Bickhard Constr. Co., 3940 W. 35th Ave., Denver, Colo. (B)
 Brown-Schrepferman & Co., 240 Washington St., Denver 9, Colo. (B-H)
 Elder Constr. Co., 175 Vallejo St., Denver 9, Colo. (B)
 Empire Constr. Co., Box 4239, S. Denver Sta., Denver 9, Colo. (B)
 Folsom Constr. Co., 40 W. Louisiana St., Denver 10, Colo. (B)
 Gaasland Co., Inc., S. York & Jewell, Denver, Colo. (B)

Hammond, H. W., 2600 Front View Crescent, Denver 11, Colo. (B)
 Hedgecock, Wendell T., 1025 Galapago St., Denver 4, Colo. (B)
 Hobbs, E. L., Constr. Co., 520 Acoma St., Denver 4, Colo. (B)
 Howell, Jas. R., & Co., 1030 W. 6th Ave., Denver, Colo. (B)
 Industrial Constrs., 3860 Galapago St., Denver 16, Colo. (B)
 J. & K. Constr. Co., 1378 Dexter St., Denver 7, Colo. (B)
 Johns Engr. Co., 375 Kalamath St., Denver 4, Colo. (B)
 Jones, E. B. & A. A., 682 Wyandotte St., Denver 4, Colo. (B)
 Jones & Hezlep, Tabor Bldg., 16th & Curtis Sts., Denver, Colo. (B)
 Kenney, Frank M., Box 898, Denver, Colo. (B)
 Kenney, Jas. B., 3233 Osage St., Denver 11, Colo. (B)
 Kiewit, Peter, Sons' Co., P. O. Box 4149, S. Denver Sta., Denver 9, Colo. (B)
 Kirchhof, F. J., Constr. Co., 700 Lawrence St., Denver 4, Colo. (B)
 Morris Constr. Co., 330 W. Asbury Ave., Denver, Colo. (B)
 Nielsen, N. R., & Sons, 632 Detroit St., Denver 6, Colo. (B)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (B)
 Olson, David A., 323 Santa Fe Dr., Denver 9, Colo. (B)
 Perlmutter, Abe, Constr. Co., Inc., 401 Vallejo St., Denver 9, Colo. (B)
 Petry, N. G., Constr. Co., 3144 Navajo St., Denver 11, Colo. (B)
 Porter, Geo. S., 1165 Grant St., Apt. 101, Denver, Colo. (B)
 Rogers, Platt, Inc., P. O. Box 2068, Denver, Colo. (B)
 Short, Harry E., Tile Co., 1132 Speer Blvd., Denver, Colo. (B)
 Swinerton & Walberg Co., P. O. Box 1379, Denver 1, Colo. (B)
 Tamminga, John S., Tramway Bldg., Denver 2, Colo. (B)
 Udesen, Robt., 226 Pearl St., Denver 9, Colo. (B)

(b) COLORADO CONTRACTORS ASSOCIATION, INC.

President—Morris E. Adelstein, Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo.
Managing Director—Earle W. Devalon, 302 Flat Iron Bldg., Denver 2, Colo.
Telephone: Acoma 3524

Anderson, F. B., Inc., 809 Interstate Trust Bldg., Denver 2, Colo. (Hvy)
 Arthur & Allen, 409 N. Grand Ave., P. O. Box 1432, Pueblo, Colo. (H-Hvy)
 Atchison, R. R., Co., The, 4214 S. Logan St., Englewood, Colo. (H)
 Austin, John R., Constr. Co., 703 1st Natl. Bk. Bldg., Denver 2, Colo. (Hvy)
 Baab Constr. Co., 828 19th St., Greeley, Colo. (H-Hvy)
 Berry, C. B., 764 Humboldt St., Denver 3, Colo. (H)

Birchby & Nauman, Inc., 845 Navajo St., Denver 4, Colo. (H-Hvy)
 Blanchard Bros., Rt. 3, Box 234, Denver 16, Colo. (H)
 Brown Constr. Co., 2311 N. Tejon, Colorado Springs, Colo. (H)
 Burks & Co., 355 Ivanhoe St., Denver 7, Colo. (Hvy)
 Burnett Constr. Co., 509 8th Ave., Durango, Colo. (H)
 Campsey, R. N., Constr. Co., 2520 Leyden St., Denver 7, Colo. (B-H)
 Colorado Constrs., Inc., 725 W. 39th Ave., Denver 16, Colo. (H)
 Condon-Cunningham Company, 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
 Corn & McGraw Constr. Co., 414 Canon St., Grand Junction, Colo. (Hvy)
 Crocker & Ellett, Inc., 1863 Wazee St., Denver 2, Colo. (Hvy)
 Gardner Constr. Co., Box 360, Glenwood Springs, Colo. (H)
 Gordon Constr. Co., 1950 31st St., Denver 5, Colo. (H-Hvy)
 Haake, Floyd, 1201 Sierra Vista, Santa Fe, N. Mex. (H)
 Hanes, C. M., Constr. Co., 110 W. 13th Ave., Denver 4, Colo. (H-Hvy)
 Harrison Constr. Co., The, 1566 S. Bannock St., Denver 10, Colo. (H)
 Heckendorf, F. A., 270 S. Sherman Ave., Littleton, Colo. (H)
 Hill, Carl V., 1844 13th Ave., Greeley, Colo. (H)
 Hinman Bros. Constr. Co., The, P. O. Box 2571, Denver 1, Colo. (H-Hvy)
 Honnen, Ed. H., P. O. Box 5188, Terminal Annex, Denver 17, Colo. (H)
 Horner, A. S., Constr. Co., 118 S. Pecos St., Denver 9, Colo. (H-Hvy)
 Horner & Switzer, 118 S. Pecos St., Denver 9, Colo. (H-Hvy)
 Hubner, C. L., Co., 4000 York St., Denver 5, Colo. (H)
 Hutcheson Constr. Co., Inc., 4101 E. Evans Ave., Denver 7, Colo. (H-Hvy)
 Inland Constr. Co., 416 Hynds Bldg., Box 197, Cheyenne, Wyo. (H-Hvy)
 Jacobs, M. C., Constr. Co., 1161 S. St. Paul St., Denver 10, Colo. (H)
 Jones Constr. Co., 272 S. Santa Fe Dr., Denver 9, Colo. (Hvy)
 Kenney, Frank M., Box 898, Denver 1, Colo. (B)
 Kenney, Jas. B., Inc., 3233 Osage St., Denver 11, Colo. (B-H)
 Kiewit, Peter, Sons' Co., P. O. Box 4149, S. Denver Sta., Denver 9, Colo. (Hvy)
 Larson Constr. Co., 725 W. 39th Ave., Denver, 16, Colo. (H)
 Lawrence Constr. Co., 112 S. Elati St., Denver 9, Colo. (H)
 Leone, Domenic, Constr. Co., Inc., 818 Oak St., Trinidad, Colo. (H)
 Lindstrom & Williams, 935 Colorado Blvd., Denver 7, Colo. (H)
 Lively, Ed., Constr. Co., 510 N. Allen, Farmington, N. Mex. (H)
 Lowdermilk Bros., 1950 W. Dartmouth, P. O. Box 4150, S. Denver Sta., Denver 9, Colo. (H-Hvy)
 Magoffin, S. S., Co., Englewood, Colo. (Hvy)
 Mann Constr. Co., 2700 S. Elati St., Englewood, Colo. (Hvy)

COLORADO—Continued

Millay & McBride Co., 507 Medical Arts Bldg., Waco, Texas (Hvy)
 Monaghan, J. H.-N. M., & Assoc. Cos., Rt. 1, Derby, Colo. (H-Hvy)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
 Pacific Pipeline & Engrs., Ltd., 2040 S. Navajo St., P. O. Box 4279, S. Denver Sta., Denver 9, Colo. (Hvy)
 Pettyjohn, F. S., Rt. 1, Alamosa, Colo. (H)
 Read Constr. Co., Inc., 706 W. 19th St., P. O. Box 357, Cheyenne, Wyo. (H-Hvy)
 Rogers, Platt, Inc., P. O. Box 153, Pueblo, Colo. (H-Hvy)
 Schmidt Constr. Co., P. O. Box 66, Grand Junction, Colo. (H)
 Sears, M. J., 509 15th St., Denver 2, Colo. (H)
 Selander, Edw., 2309 S. Federal Blvd., Denver 10, Colo. (H-Hvy)
 Smith, Luke E., 1221 12th St., Denver 4, Colo. (H-Hvy)
 Spillane Constr. Co., 1165 Pikeview, Lakewood, Colo. (H)
 Switzer & Hayes, Rt. 1, Box 452, Arvada, Colo. (H-Hvy)
 Van Winkle, W. F. & D. E., 1609 Ford St., Golden, Colo. (H)
 Western Constr. Co., 2464 S. 8th Ave., Greeley, Colo. (Hvy)
 Williams Constr. & Drilling Co., Box 967, Grand Junction, Colo. (H)
 Wunderlich Contracting Company, 206 Patterson Bldg., Omaha 2, Nebr. (H-Hvy)

6. CONNECTICUT

(a) CONNECTICUT STATE CHAPTER

President—Earl C. Wheeler, 15 Lewis St., Hartford 3, Conn.
Executive Vice President—Charles F. Grisham, 152 Temple St., New Haven, Conn.
Telephone: 7-8536

Associated Constr. Co., The, 1010 Wethersfield Ave., Hartford, Conn. (B)
 Barney, W. J. Corp., 101 Park Ave., New York 17, N. Y. (B)
 Bartlett-Brainard Co., 103 Woodbine St., Hartford 6, Conn. (B)
 Blakeslee, C. W., & Sons, Inc., 58 Waverly St., New Haven, Conn. (B-H-Hvy-RR)
 Bonvicini Bldg. Co., 1500 S. Main St., Torrington, Conn. (B)
 Brady, Geo. J., Co., Inc., 134 4th St., Hamden, Conn. (B)
 Bray, Edw. E., Co., Inc., 362 River St., Bridgeport, Conn. (B)
 Brooklawn Constr. Co., The, 254 Prospect Ave., Hartford, Conn. (B)
 Burghart, O. F., Inc., 871 Central Ave., Bridgeport 8, Conn. (B)
 Buzzi, Felix, & Son, 612 S. Main St., Torrington, Conn. (B)
 Carlson & Torell Co., The, 50 Dwight St., New Britain, Conn. (B)

Chapel Constr. Co., The, 100 Ashmun St., New Haven, Conn. (B)
 Cianci Constr. Co., 107 Brace Rd., West Hartford, Conn. (B)
 Dapont, A., Constr. Co., Inc., 1801 Thomas-ton Ave., Waterbury, Conn. (B)
 Dwight Bldg. Co., The, 152 Temple St., New Haven, Conn. (B)
 E. & F. Constr. Co., Inc., The, 94 Wells St., Bridgeport 6, Conn. (B-Hvy)
 Frouge Constr. Co., Inc., 74 Goodsell St., Bridgeport, Conn. (B)
 Fusco-Amatruda Co., The, 59 Amity Rd., New Haven, Conn. (B)
 Gellatly Constr. Co., The, 181 Sylvan Ave., P. O. Box 6024, Beardsley Sta., Bridgeport 6, Conn. (B)
 Giordano Constr. Co., 287 Main St., Branford, Conn. (B)
 Green & Odegard, 119 Ann St., Hartford, Conn. (B)
 Halprin, Jack A., Inc., 679 State St., New Haven, Conn. (B)
 Hubbell, S. W., Bldg. Co., The, 589 Knowl-ton St., Bridgeport, Conn. (B)
 Industrial Constr. Co., The, 721 Main St., Hartford 3, Conn. (B)
 Johnson, Richard, Co., 167 Washington St., Hartford 6, Conn. (B)
 Kelley-Wood Co., The, 76 Center St., New Haven, Conn. (B)
 Kelly, Jos. F., Co., The, 184 Front Ave., P. O. Box 206, West Haven, Conn. (B)
 Lines, H. Wales, Co., The, 134 State St., Meriden, Conn. (B)
 Maring, Harry, Jr., Inc., 536 Lindley St., Bridgeport, Conn. (B)
 Massacoe Bldrs., Inc., Simsbury, Conn. (B)
 Megin, W. J., Inc., 51 Elm St., Naugatuck, Conn. (B)
 Monaco Constr. Co., The, 104 Reservoir Ave., Bridgeport, Conn. (B)
 Moss, Edwin, & Son, Inc., 555 Grant St., Bridgeport, Conn. (B)
 Mott-Mohr Constr. Co., Inc., 15 Mead St., New Haven, Conn. (B)
 Mutual Constr. Co., Inc., 81 Read St., Bridgeport, Conn. (B)
 Packtor, Edw., Co., 11 Asylum St., Hartford, Conn. (B)
 Paterson Constr. Co., Inc., 66 Anderson St., New Haven, Conn. (B)
 Rice, Jos. N., Inc., 60 Peck St., P. O. Box 145, Sta. A, New Haven, Conn. (B)
 Schoolnick, Louis, Constr. Co., 49 Garden St., Hartford, Conn. (B)
 Smith Constr. Co., Inc., 101 Water St., Derby, Conn. (B)
 Sullivan, Frank P., Inc., 110 Tyler St., East Haven, Conn. (B)
 Tomlinson & Hawley, Inc., 472 North Ave., Bridgeport 6, Conn. (B)
 Torrington Bldg. Co., The, 187 Church St., Torrington, Conn. (B)
 Wadhams & May Co., The, 15 Lewis St., Hartford, Conn. (B)
 Wheeler, Earl C., 15 Lewis St., Hartford 3, Conn. (B)
 Wooding, C. F., Co., The, 43 Wallace Ave., Wallingford, Conn. (B)

7. DELAWARE

(a) ASSOCIATED GENERAL CONTRACTORS OF DELAWARE

President—Frederic G. Krapf, 421 Orange St., Wilmington 22, Del.
Secretary—F. E. B. McCann, c/o Allied Constr. Inds. of Delaware, Inc., 419 Orange St., Wilmington, Del.
Telephone: 7264

Bader, J. A., & Co., Inc., 923 Market St., Wilmington 7, Del. (B-H-Hvy)
 Bader, J. A., II, 1215 Gilpin Ave., Wilmington, Del. (B)
 Cantera Constr. Co., 1508 Pennsylvania Ave., Wilmington 6, Del. (B)
 Dangel's, David, Sons, 508 N. VanBuren St., Wilmington 3, Del. (B)
 DiSabatino & Ranieri, 612 W. 9th St., Wilmington, Del. (B)
 Dougherty, C. J., & Sons, Inc., 600 Tatnall St., Wilmington 22, Del. (B)
 Eckman, Chas. A., Co., 1707 Broome St., Wilmington 35, Del. (B)
 Fontana, D. M., 112 A St., Wilmington, Del. (B)
 George & Lynch Co., M210 Delaware Trust Bldg., Wilmington, Del. (B-H-Hvy)
 Haddock, W. D., Constr. Co., P. O. Box 268, Wilmington 43, Del. (B)
 Healy, John E., & Sons, Inc., 707 Tatnall St., Wilmington 22, Del. (B)
 Julian, Jas., Constr. Co., 405 S. duPont Rd., Wilmington, Del. (B-H-Hvy)
 Julian, John, Constr. Co., 109 S. duPont Rd., Wilmington, Del. (B-H-Hvy)
 Krapf, Frederic G., 421 Orange St., Wilmington 22, Del. (B)
 Lynch, Harry S., Co., Inc., 715 Tatnall St., Wilmington 22, Del. (B)
 Nutter Constr. Co., 1315 Brandywine Blvd., Cragmere, Wilmington, Del. (B)
 Rupert Constr. Co., 3400 Lancaster Ave., Wilmington 22, Del. (B)
 Standard Bitulithic, Box 27, New Castle, Del. (B-H-Hvy)
 Van Sant Bros., 14 Ashley Pl., Wilmington, Del. (B)
 Wilson, H. P., DuPont Blvd. & State Rd., New Castle, Del. (B-H-Hvy)

8. DISTRICT OF COLUMBIA

(a) MASTER BUILDERS ASSOCIATION, INC.—DISTRICT OF COLUMBIA

President—Geo. L. Dyer, Jeffress-Dyer, Inc., 908 20th St., N. W., Washington 6, D. C.
Secretary-Treasurer—Randall C. Wyant, 1931 K St., N. W., Washington 6, D. C.
Telephone: District 1089

Bahen, Jos. B., Constr. Co., Inc., 418 Randolph St., N. W., Washington 11, D. C. (B)
 Beauchamp, Victor R., Inc., 6837 4th St., N. W., Washington 12, D. C. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

DISTRICT OF COLUMBIA—Continued

Chappell, W. M., Co., 1219 Good Hope Rd., S. E., P. O. Box 4740, Anacostia 20, D. C. (B)

Cladny, M., Constr. Co., Inc., Barrister Bldg., 635 F St., N. W., Washington 4, D. C. (B)

Consolidated Engr. Co., Inc., 20 E. Franklin St., Baltimore 2, Md. (B)

Cramer-Vollmerhausen Co., Inc., 2601 Connecticut Ave., N. W., Washington 8, D. C. (B)

Daniels, E. L., 2112 N. Quincy St., Arlington, Va. (B)

Davis & Platt, Inc., 401 Butternut St., N. W., Washington 12, D. C. (B)

Davis, Wick, Rosengarten Co., Inc., 613 15th St., N. W., Washington 5, D. C. (B)

Dyker Bldg. Co., Inc., 1624 Eye St., N. W., Washington 6, D. C. (B)

Friel, E. B., & Son, 6230 3d St., N. W., Washington 12, D. C. (B)

Greenhill Engr. Co., Inc., 418 Florida Ave., N. E., Washington 2, D. C. (B)

Grove Shepherd Wilson & Kruege, Inc., Securities Bldg., 729 15th St., N. W., Washington 5, D. C. (B)

Hedin Constr. Co., 820 Michigan Ave., N. E., Washington 17, D. C. (B)

Hyman, Geo., Constr. Co., The, 1010 Vermont Ave., N. W., Washington 5, D. C. (B-Hvy)

Irons & Reynolds, Inc., 1724 H St., N. W., Washington 6, D. C. (B)

Jeffress-Dyer, Inc., 908 20th St., N. W., Washington 6, D. C. (B)

Johnson, John A., & Sons, Inc., Occidental Bldg., 1411 Pennsylvania Ave., N. W., Washington 4, D. C. (B)

Lipscomb, Wm. P., Co., Inc., 535 Woodward Bldg., Washington 5, D. C. (B)

Martell, F. H., Co., Inc., 1023 20th St., N. W., Washington 6, D. C. (B)

Martin, Geo. C., 6213 31st St., N. W., Washington 15, D. C. (B)

McCloskey & Co., 1620 W. Thompson St., Philadelphia 21, Pa. (B)

McShain, John, Inc., 16th & N. Arlington Ridge Rd., Arlington, Va. (B-Hvy)

Mohler Constr. Co., 1223 Connecticut Ave., N. W., Washington 6, D. C. (B)

Mooney, W. E., Co., Inc., 3924 14th St., N. W., Washington 11, D. C. (B)

Nebel, Jos. F., Co., 2140 P St., N. W., Washington 7, D. C. (B)

Owens, T. Calvin, 1426 G St., N. W., Washington 5, D. C. (B)

Parkhill Constr. Co., 14th St. & Park Rd., N. W., Riggs Bk. Bldg., Washington 10, D. C. (B)

Plotzer, E. & E. J., 5910 MacArthur Blvd., N. W., Washington, D. C. (B-Hvy)

Prescott Constr. Co., Inc., 1307 W St., N. W., Washington 9, D. C. (B)

Roystone, John F., Co., Inc., 1115 Wilson Blvd., Arlington, Va. (B)

Skinner & Garrett, 1719 Eye St., N. W., Washington 6, D. C. (B)

Solomon, David, Inc., 740 11th St., N. W., Washington 5, D. C. (B)

Spencer, Warren, Inc., 1350 Jonquil St., N. W., Washington 12, D. C. (B)

Spencer, White & Prentiss, Inc., White House Constr. Wk., S. E. Gate, Washington 25, D. C. (Hvy)

Tester, John, & Son, Inc., 1620 2d St., S. W., Washington 4, D. C. (B)

Tompkins, Chas. H., Co., 907 16th St., N. W., Washington 6, D. C. (B-Hvy)

Tuckman-Barbee Constr. Co., Inc., 1720 H St., N. W., Washington 6, D. C. (B)

Turner Construction Co., Graybar Bldg., 420 Lexington Ave., New York 17, N. Y. (B)

Turner, Lee T., 3616 14th St., N. W., Washington 10, D. C. (B)

Wohlgemuth, C., Jr., Rm. 608, McLachlen Bldg., Washington 1, D. C. (B)

Zerkel Constr. Co., 1011 20th St., N. W., Washington 6, D. C. (B)

Local Members

Corson & Gruman Company, 33d & Water Sts., N. W., Washington 7, D. C. (H)

Standard Engr. Co., Inc., 2129 Eye St., N. W., Washington, D. C. (B)

9. FLORIDA**(a) NORTHEASTERN FLORIDA CHAPTER**

President—E. H. Hunter, P. O. Box 5359, Jacksonville, Fla.

Secretary-Treasurer—Earl C. Kenyon, 4276 Verona Ave., Jacksonville 5, Fla.

Auchter, Geo. D., Co., The, 56th & Evergreen, Box 1193, Jacksonville 1, Fla. (B-Hvy)

Bass Constr. Co., 2309 N. Alabama St., P. O. Box 156, Gainesville, Fla. (B)

Brownnett, H. S., 555 Stockton St., Jacksonville 4, Fla. (B)

Caddell & Jackson, 2014 Dennis St., P. O. Box 2217, Jacksonville, Fla. (H)

Clayton, A. L., Co., 2446 Dennis St., Box 2525, Jacksonville 4, Fla. (B)

Cox, Fred M., 1644 Edgewood Ave., Jacksonville, Fla. (B)

Duval Engr. & Contr. Co., P. O. Box 1588, Jacksonville 1, Fla. (H)

Foshee, D. O., Inc., 1561 La Rue Ave., Jacksonville 7, Fla. (B)

Gallespie Constr. Co., 218 W. Church St., Jacksonville 2, Fla. (B)

Girvin & White, P. O. Box 2022, Jacksonville, Fla. (B)

Hillyer & Lovan, Box 371, Jacksonville 1, Fla. (B-Hvy)

Hunter, E. H., P. O. Box 5359, Jacksonville, Fla. (B)

Jacobs, S. S., Co., Box 4217, Jacksonville 1, Fla. (B-Hvy)

Kenyon, E. C., 4276 Verona Ave., Jacksonville 5, Fla. (B)

Means Constr. Co., 945 Phillips St., Jacksonville, Fla. (B)

Newkirk, A. D., & Son, 1436 June St., Jacksonville, Fla. (B)

Palmer, Lee C., P. O. Box 4226, Jacksonville, Fla. (B)

Perry, Arthur F., Co., 1528 E. Adams St., Box 1577, Jacksonville, Fla. (B)

Small, Jas. H., & Co., Box 4786, Jacksonville 1, Fla. (B)

Smith, Ivy H., Co., P. O. Box 5098, Jacksonville 7, Fla. (B-H)

Smith, R. McDonald, 3867 Arden St., Jacksonville, Fla. (B)

Woodcock, O. P., Co., 430 W. Monroe St., Jacksonville 2, Fla. (B)

(b) SOUTH FLORIDA CHAPTER

President—Frank J. Rooney, Frank J. Rooney, Inc., 5880 N. E. 4th Ave., Miami 38, Fla.

Executive Manager—Paul H. Hinds, 1113 Congress Bldg., Miami 32, Fla. Telephone: 3-5633 & 3-5237

Albert Constr. Co., DuPont Bldg., Rm. 1434, Miami, Fla. (B)

Anaconda Constr. & Engr. Co., 303 E. Las Olas Blvd., Ft. Lauderdale, Fla. (B)

Caldwell-Scott Engr. & Constr. Co., Inc., 340 S. E. 24th St., P. O. Box 1221, Ft. Lauderdale, Fla. (B)

Chalker Constr. Co., 343 S. W. North River Dr., Miami, Fla. (B)

Davis, S. C., Constr. Co., Inc., 1815 Purdy Ave., Miami Beach 39, Fla. (B)

Deigaard & Preston Bldrs., Inc., 264 Giralda Ave., P. O. Box 733, Coral Gables 34, Fla. (B)

Duffey Constr. Co., Inc., 1395 N. W. 21st St., Box 405, Allapattah Sta., Miami, Fla. (B)

Edwards Constr. Co., Inc., 4203 Ponce de Leon Blvd., P. O. Box 1165, Coral Gables 34, Fla. (B)

Fleming, Edw. M., Constr. Co., 3304 N. Miami Ave., Miami 37, Fla. (B)

Graham-Keeling Corp., 71 N. E. 21st St., Miami 37, Fla. (B)

Hamilton Constr. Co., Inc., 7541 N. E. 3d Pl., Miami, Fla. (B)

Harrison, M. R., Constr. Corp., 5137 N. E. 2d Ave., Miami, Fla. (B)

Howland, Fred, Inc., 1451 N. W. 20th St., P. O. Box 951, Miami 6, Fla. (B)

Kroetz, Wilbur L., Inc., 534 N. E. 6th Ave., Ft. Lauderdale, Fla. (B)

M & M Dredg. & Constr. Co., 2975 N. W. North River Dr., P. O. Box 27, M. O., Miami 1, Fla. (Hvy)

Mangham-Butler, Inc., 900 N. W. 42d Ave., Miami 36, Fla. (B)

Mevers, B. E., Inc., 365 Greco Ave., Coral Gables, Fla. (B)

Miller, Rodney, Co., The, 4220 Ponce de Leon Blvd., Coral Gables, Fla. (B)

Moretti, Jos. G., Inc., 2401 N. W. 7th St., Miami, Fla. (B)

Orr, John B., Inc., 485 N. W. 54th St., Drawer "R", Little River Sta., Miami 38, Fla. (B)

Powell Bros., Inc., 16 S. W. 1st Ave., P. O. Box 281, Ft. Lauderdale, Fla. (H-Hvy)

Price, W. T., Dredg. Corp., 3200 S. W. 27th Ave., Miami 33, Fla. (H-Hvy)

Reed Constr. Corp., 1345 20th St., Miami Beach 39, Fla. (Hvy)

Reynolds, D. H., Inc., 243 Greco Ave., P. O. Box 901, Coral Gables 34, Fla. (B)

Roberts, Lyle, Inc., 4033 Ponce de Leon Blvd., Coral Gables, Fla. (B)

Rooney, Frank J., Inc., 5880 N. E. 4th Ave., Miami 38, Fla. (B)

S & B Constr. Co., 224 Palermo Ave., Coral Gables, Fla. (B)

A.G.C. DIRECTORY

FLORIDA—Continued

Snyder Constr. Co., 206 S. W. 6th St., P. O. Box 681, Ft. Lauderdale, Fla. (H-Hvy-RR)
 Sparks Constr. Co., Inc., 4569 Ponce de Leon Blvd., Coral Gables, Fla. (B)
 Stobs Bros. Constr. Co., 7010 N. E. 4th Ct., Miami, Fla. (B)
 Stow, Mulford, 2117 N. W. 17th Ave., Miami 42, Fla. (B)
 Taylor Constr. Co., Rt. 1, Box 180, 2875 N. W. 42d Ave., Miami, Fla. (B)
 Troup Bros., Inc., 4152 S. Dixie Hwy., P. O. Box 168, Coconut Grove Sta., Miami 33, Fla. (H)
 Wheeler, C. F., 810 N. W. 72d St., Miami, Fla. (B)
 Witters Constr. Co., Inc., P. O. Box 1446, Riverside Sta., Miami, Fla. (B)

(c) FLORIDA WEST COAST CHAMBER

President—C. T. Dawkins, 420 S. Rome Ave., Tampa 6, Fla.
Secretary—Judson Edwards, Chamber of Commerce Bldg., P. O. Box 138, Tampa 1, Fla.
Telephone: 2-7643

Armstrong, W. H., Co., Inc., 357 Scotland St., Dunedin, Fla. (H)
 Boyce Co., 605 Pennsylvania Ave., Clearwater, Fla. (Hvy)
 Clair-Mel Bldrs., Inc., 4002 Swann Ave., Tampa 9, Fla. (B)
 Clarson, R. E., Inc., 2000 13th Ave., No., P. O. Box 387, St. Petersburg, Fla. (B)
 Cone Bros. Contr. Co., Caesar St. & Cumberland, P. O. Box 652, Tampa 2, Fla. (H)
 Dawkins, C. T., 420 S. Rome Ave., Tampa 6, Fla. (B-Hvy)
 DeHaven, R., Inc., P. O. Box 1804, Tampa, Fla. (B)
 Ewell, J. L., P. O. Box 791, Lakeland, Fla. (B-H)
 Fielland, C. A., Inc., 107 N. Rome Ave., Tampa 6, Fla. (B)
 Fox & Fox, 2620 8th Ave., No., St. Petersburg, Fla. (B)
 Gardenhire Bros., Inc., P. O. Box 351, Bartow, Fla. (B-Hvy)
 Gates & Ragsdale Constr. Co., Inc., 1523 Grand Central Ave., Tampa 6, Fla. (B)
 Hartung Constr. Co., Inc., 2306 Bristol Ave., Tampa 9, Fla. (B)
 Haworth, Albert, 1103 Eva St., P. O. Box 2015, Tampa 4, Fla. (B)
 Hendry Bldg. Co., 1400 2d Ave., No., St. Petersburg, Fla. (B)
 Hennessy, A. P., & Sons, Inc., 1600 9th Ave., No., St. Petersburg, Fla. (B)
 Hogan & Horrman, 134 Beach Dr., No., St. Petersburg, Fla. (B)
 Hubbard Constr. Co., P. O. Box 713, Orlando, Fla. (B-H-Hvy)
 Keys, Clyde J., 20 11th St., So., St. Petersburg, Fla. (B)
 Langston Constr. Co., Inc., P. O. Box 3031, Orlando, Fla. (B-H)

Lastinger Home Bldrs., Inc., 408 S. Nebraska Ave., Tampa 2, Fla. (B)
 Long, H. L., 20 Collier Arcade, P. O. Box 630, Ft. Myers, Fla. (B)
 Luddington & Austin, 1718 Lemon St., Tampa 6, Fla. (B)
 Mabry, Chester, Constr. Co., 1529 Grand Central Ave., P. O. Box 806, Tampa 6, Fla. (B)
 Mann Constr. Co., 514 Florida Bk. Bldg., Orlando, Fla. (B)
 Mariani-O'Brien, Inc., 301 22d St., So., P. O. Box 1367, St. Petersburg, Fla. (B-Hvy)
 McAnulty, Inc., Walcaid Bldg., P. O. Box 240, Bradenton, Fla. (B)
 Mills & Jones, Inc., P. O. Box 264, 2260 4th Ave., So., St. Petersburg, Fla. (B)
 Moore, Edw. S., & Sons, 307 1st Ave., So., P. O. Box 608, St. Petersburg, Fla. (B)
 Ranon & Jimenez, 809 E. Oak Ave., Tampa 2, Fla. (B)
 Saine Co., 314 Piedmont St., P. O. Box 2107, Orlando, Fla. (Hvy)
 Settecasì & Chillura, 2101 5th Ave., Tampa 5, Fla. (B)
 Smith, Paul, Constr. Co., 310 N. Rome Ave., P. O. Box 1912, Tampa 6, Fla. (B)
 Stansfield Constr. Co., 2401 Horatio St., Tampa 9, Fla. (B-Hvy-RR)
 Stephens, J. S., & Sons, 902 N. Rome Ave., Tampa 6, Fla. (B)
 Tyrone Gardens, Inc., Tyrone Blvd. & 9th Ave., No., St. Petersburg, Fla. (B)
 Van Eyck, T., 7009 Central Ave., Tampa 4, Fla. (B)
 Wellswood, Inc., Hillsborough & Rome Ave., P. O. Box 590, Tampa 3, Fla. (B)
 White Constr. & Engr. Co., 300 22d St., So., St. Petersburg, Fla. (Hvy)

(d) NORTHWEST FLORIDA CHAMBER

President—William Soule, Soule Constr. Co., P. O. Box 1725, Pensacola, Fla.
Executive Secretary—C. H. Barrow, 502 Thiesen Bldg., P. O. Box 1026, Pensacola, Fla.

Chavis Constr. Co., 41 E. Wright St., Pensacola, Fla. (B)
 Dyson & Co., P. O. Box 22, Pensacola, Fla. (B)
 Fulghum, Kenneth, Inc., P. O. Box 463, Pensacola, Fla. (B)
 Olney Constr. Co., Inc., 3627 Admiral Murray Blvd., Pensacola, Fla. (B)
 Osceola Constr. Co., Mobile Hwy., Pensacola, Fla. (B)
 Parda, T. J., 1215 N. DeVillers, Pensacola, Fla. (B)
 Soule Constr. Co., N. "O" St., Pensacola, Fla. (B)
 Turner, C. H., Co., The, 17½ S. Palafox St., Pensacola, Fla. (B)
 White Constr. Co., P. O. Box 2037, Pensacola, Fla. (B)

(e) FLORIDA EAST COAST CHAMBER

President—J. Hilbert Sapp, J. Hilbert Sapp, Inc., 4015 Washington Rd., West Palm Beach, Fla.
Executive Manager—Wm. P. Bobb, Jr., 340 Royal Palm Way, Palm Beach, Fla.
Telephone: 2-2364

Alexander & Williams, Inc., 502 Kanuga Dr., West Palm Beach, Fla. (B)
 Arnold Constr. Co., 7 Murray Bldg., Palm Beach, Fla. (B)
 Birdsell, John H., Jr., 338 Royal Palm Way, Palm Beach, Fla. (B)
 Butler & Oenbrink, 207 Royal Palm Way, Palm Beach, Fla. (B)
 Cleary Bros. Constr. Co., P. O. Box 6815, West Palm Beach, Fla. (H-Hvy)
 Coastal Properties Corp., 5519 Georgia Ave., West Palm Beach, Fla. (B)
 Hillier, Don, & Sons, Inc., P. O. Box 507, Pahokee, Fla. (B)
 Latham Constr. Co., 1400 Congress Ave., P. O. Box 165, West Palm Beach, Fla. (Hvy)
 Lissenden, P. C., Co., Inc., P. O. Box 88, Guaranty Bldg., West Palm Beach, Fla. (B)
 McLaren Bros. Constr. Co., 518 Comeau Bldg., West Palm Beach, Fla. (B)
 Murphy Constr. Co., The, 1530 Clare Ave., West Palm Beach, Fla. (H-Hvy)
 Sapp, J. Hilbert, Inc., 4015 Washington Rd., West Palm Beach, Fla. (B)
 Sheldon & Glissen, Inc., 2405 Division Ave., P. O. Box 8875, West Palm Beach, Fla. (B)

10. GEORGIA

(a) GEORGIA BRANCH

President—C. R. Justi, Griffin Constr. Co., 26 3d St., N. W., Atlanta 3, Ga.
Executive Secretary—Hugh W. Roberts, Builders Bldg., 163 Harris St., N. W., Atlanta, Ga.
Telephone: Walnut 5941

Adair, C. A., & Co., 73 W. Peachtree Pl., N. W., Atlanta 3, Ga. (B)
 Adams, A. K., & Co., Inc., 542 Plum St., N. W., Atlanta, Ga. (B)
 Archer Bros., Inc., 281 North Ave., N. E., Atlanta, Ga. (B)
 Arco Co., 510 Edgewood Ave., N. E., Atlanta, Ga. (B)
 Artley Co., 504 E. Bay St., Savannah, Ga. (B)
 Barge-Thompson Co., 136 Ellis St., N. E., Atlanta 3, Ga. (B)
 Batson-Cook Co., Inc., West Point, Ga. (B)
 Beck, Henry C., Co., 513 1st Natl. Bk. Bldg., Atlanta 3, Ga. (B)
 Beckham, E. M., Constr. Co., Perry, Ga. (H-Hvy)
 Beers Constr. Co., 70 Ellis St., N. E., Atlanta 3, Ga. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

GEORGIA—Continued

- Beers, Gilbert, 489 Bishop St., N. W., Atlanta, Ga. (B)
- Black, J. J., & Co., 575 Plum St., N. W., Atlanta 3, Ga. (B)
- Blair, A. Farnell Co., Inc., 1306 Spring St., N. W., Atlanta, Ga. (B)
- Bowen, R. A., Constr. Co., 3d & Hemlock Sts., Macon, Ga. (B-H)
- Bradfield, J. P., 218 Hill Bldg., Columbus, Ga. (B)
- Bray, J. N., Co., P. O. Box 528, Valdosta, Ga. (B)
- Briggs, A. R., Constr. Co., 526 Arch St., Macon, Ga. (B)
- Brittain-Pattillo Co., 204-6 Bldg. & Loan Bldg., Decatur, Ga. (B)
- Capital Constr. Co., 167 Harris St., N. W., Atlanta 3, Ga. (B)
- Carroll Constr. Co., 166 Courtland St., N. E., Atlanta, Ga. (B)
- Caskey, G. M., & Son, 217 Thomas St., Athens, Ga. (B)
- Christian & Bell Co., 664 Spring St., N. W., Atlanta 3, Ga. (B)
- Collins, A. J., Floral City, Fla. (B)
- Concrete Bldrs., Inc., 880 East Ave., N. E., Atlanta, Ga. (B)
- Concrete Constr. Co., 137 Boulevard, N. E., Atlanta, Ga. (Hvy)
- Cornell-Young Co., P. O. Box 96, Macon, Ga. (H-Hvy-RR)
- Daniel Lumber Co., La Grange, Ga. (B)
- deGivé-Dunham & O'Neill, 617 Grand Bldg., Atlanta, Ga. (B)
- Donnellan, C. P., 274 Buckhead Ave., N. E., Atlanta, Ga. (B)
- Flagler Co., The, 305 Techwood Dr., Atlanta, Ga. (B)
- Georgia Southern Constr. Co., 754 Plum St., Macon, Ga. (B)
- Griffin Constr. Co., 26 3d St., N. W., Atlanta 3, Ga. (B-RR)
- Griffin, Norwood, Co., 501 Whitehead Bldg., Atlanta, Ga. (B)
- H & H Constr. & Supply Co., Thomasville, Ga. (B)
- Hall Constr. Co., 664 Spring St., N. W., Atlanta, Ga. (B)
- Hallman Bros., 1155-57 W. Peachtree St., Atlanta, Ga. (B)
- Hardaway Constr. Co., P. O. Box 1339, Columbus, Ga. (H-Hvy)
- Hardin, Ira H., Co., 1000 Peachtree St., Atlanta, Ga. (B)
- Herrman Constr. Co., 531 Bishop St., N. W., Atlanta, Ga. (B)
- Ivey, Henry A., Inc., 569 Plum St., N. W., Atlanta, Ga. (B)
- Jackson & Brittain, 15 N. Abercorn St., Savannah, Ga. (B)
- Johnson, John A., & Sons, Inc., 206 Rogers St., N. E., Atlanta 3, Ga. (B)
- Johnson & Johnson Constr. Co., 401 West Bldg., Rome, Ga. (B)
- Johnston, Maynard, & Co., 2106 Belvedere Dr., N. W., Atlanta, Ga. (B)
- Jones, J. A., Constr. Co., Inc., 133 Ellis St., N. E., Atlanta, Ga. (B-H-Hvy-RR)
- Jones, Jiroud, & Co., 205 Walton Bldg., Atlanta 3, Ga. (B)
- Lambert, M. T., Co., 200 Peachtree Circle, N. E., Atlanta, Ga. (B-Hvy)
- Lee, Ray M., Co., 1004 Edgewood Ave., N. E., Atlanta, Ga. (B)
- MacDougald Constr. Co., Northside Dr., P. O. Box 1655, Atlanta 1, Ga. (B-H-Hvy)
- McRae, Farquhar, 11 Arcade Bldg., Savannah, Ga. (B)
- Meador Constr. Co., 10 Harris St., N. W., Atlanta 3, Ga. (H-Hvy)
- Mion Constr. Co., 377 Techwood Dr., N. W., Atlanta 1, Ga. (B-H)
- Mobley, Clarence, Constr. Co., 630 11th St., Augusta, Ga. (B)
- Modern Repair Co., 74 Alexander St., N. W., Atlanta, Ga. (B)
- Modernization Constr. Co., 305 Techwood Dr., N. W., Atlanta, Ga. (B)
- Morris, Edgar, Healey Bldg., Atlanta 3, Ga. (B)
- Munn, Geo. R., 583 Plum St., N. W., Atlanta 3, Ga. (B)
- Newbanks, Merrill W., 125 Merritts Ave., N. E., Atlanta, Ga. (B)
- Nonnemaker-Clayton Constr. Co., 70 Houston St., N. E., Atlanta 3, Ga. (B)
- P. & W. Constr. Co., Inc., 756 Hurt Bldg., Atlanta, Ga. (H)
- Pew, Arthur, Constr. Co., 3110½ Roswell Rd., Atlanta, Ga. (B-H-Hvy)
- Pound, Murphey, Constr. Co., P. O. Box 172, Columbus, Ga. (B)
- Rapid Transfer & Constr. Co., 280 Whiteford Ave., N. E., Atlanta, Ga. (B-H)
- Raymond Concrete Pile Co., 1523 Healey Bldg., Atlanta, Ga. (H-Hvy-RR)
- Sanders, Marthame, & Co., 800 East Ave., N. E., Atlanta, Ga. (B)
- Scott Constr. Co., Thomasville, Ga. (H-Hvy)
- Sharpe & Bickerstaff Contrs., Inc., 690 Kenesaw Ave., N. E., Atlanta, Ga. (B)
- Shaw, M. E., Contr. Co., P. O. Box 871, Macon, Ga. (B)
- Smalling's, R. H., Sons, 301 Bibb Bldg., Macon, Ga. (B)
- Smith Constr. Co., 210 Peacock Bldg., P. O. Box 184, Albany, Ga. (B-H-Hvy-RR)
- Smith, John V., & Co., P. O. Box 602, Hazlehurst, Ga. (B)
- Smith, R. T., 982 Lullwater Rd., N. E., Atlanta, Ga. (H)
- Southern Constr. Co., Inc., 1235 Reynolds St., Augusta, Ga. (B)
- Stillwell Constr. Co., P. O. Box 367, Macon, Ga. (B)
- Strother-Barge Co., 189 Cain St., N. E., Atlanta, Ga. (B)
- Swift Constr. Co., Swift Bldg., Columbus, Ga. (B)
- Thompson & Street Co., 72 11th St., N. E., Atlanta, Ga. (B)
- Tinker, H. C., P. O. Box 432, Macon, Ga. (B-H-Hvy)
- Van Winkle & Co., 506 Whitehead Bldg., Atlanta 3, Ga. (B)
- Wesley & Co., Inc., 285 Hunnicutt St., N. W., Atlanta, Ga. (B)
- Wey-Leonard Constr. Co., 200 Alexander St., N. W., Atlanta, Ga. (B)
- Whalley-Strong Co., Montgomery & 58th Sts., Savannah, Ga. (B)

11. IDAHO

(a) IDAHO BRANCH

President—Duffy E. Reed, **Duffy Reed Constr. Co., Box 1092, Twin Falls, Idaho**
Manager—J. T. R. McCorkle, **Hotel Boise, Boise, Idaho**
Telephone: 2868

- Acme Constrs., Inc., 30th & Main St., Box 329, Boise, Idaho (B-H-Hvy-RR)
- Arrington Constr. Co., P. O. Box 881, Idaho Falls, Idaho (B-Hvy)
- Barnhart & Wheeler, P. O. Box 1107, Pocatello, Idaho (H-Hvy)
- Bobier Constr. Co., Box 367, Twin Falls, Idaho (B)
- Brennan, J. W., Box 507, Pocatello, Idaho (B-Hvy)
- Burggraf, Nic, Box 397, Idaho Falls, Idaho (H)
- C.L. Elec. Co., 410 S. Main St., Pocatello, Idaho (Hvy)
- Cahoon, W. R., Box 507, Pocatello, Idaho (B)
- City Elec. Co., 1007 Broadway, Box 1277, Boise, Idaho (B-Hvy)
- Detweiler Bros., Inc., P. O. Box 870, Twin Falls, Idaho (Hvy)
- Duffy, Warren C., 404 12th Avenue Rd., Nampa, Idaho (B)
- Elle, C. H., Constr. Co., 390 Monroe Ave., P. O. Box 1010, Pocatello, Idaho (B)
- Fulton, E. A., 2610 Davis St., Boise, Idaho (B)
- Halvorson Constr. Co., Salem, Oreg. (H-Hvy)
- Hess, Marion J., P. O. Box 247, Malad, Idaho (H-Hvy)
- Holmes Constr. Co., Rt. 1, Heyburn, Idaho (H)
- Hoops Constr. Co., Box 431, Twin Falls, Idaho (H-Hvy)
- Horn, Henry L., 216 E. Logan St., Caldwell, Idaho (Hvy)
- Idaho Constrs., Inc., 1311 N. 25th, Boise, Idaho (H-Hvy)
- Intermountain Bldrs., Inc., P. O. Box 506, Caldwell, Idaho (B)
- Intermountain Plumbing Co., 1322 Grove St., P. O. Box 1652, Boise, Idaho (B-Hvy)
- Kloepfer & Gramkow, 416 S. 6th St., Boise, Idaho (B)
- Konen, J. F., Constr. Co., 522 Park St., Lewiston, Idaho (B-H)
- Lauch, C. B., Constr. Co., Box 2559, Boise, Idaho (B)
- Marrazzo, Tony, Box 876, Boise, Idaho (H)
- Martin Constr. Co., 502 Idaho Bldg., P. O. Box 2614, Boise, Idaho (B-Hvy)
- McCorkle, Tom, Constr. Co., 3001 Idaho St., Box 2578, Boise, Idaho (H)
- McNeel, H. J., Inc., 1024 Arthur St., Caldwell, Idaho (B)
- Morrison-Knudsen Co., Inc., 319 Broadway, Box 450, Boise, Idaho (H-Hvy-RR)
- Nottingham, Jerry, 329 Grove St., Boise, Idaho (Hvy)
- Olson, Jack C., Lorenzo, Idaho (B-H-Hvy)
- Pickett & Nelson, P. O. Box 755, Idaho Falls, Idaho (H)

A.G.C. DIRECTORY

IDAHO—Continued

Quinn-Robbins Co., Inc., 703 S. 16th St., Boise, Idaho (H)
 Read, Fred W., Rt. 3, Twin Falls, Idaho (B)
 Reed, Duffy, Constr. Co., Box 1092, Twin Falls, Idaho (H)
 Reynolds & Walker, Inc., Box 363, Twin Falls, Idaho (B)
 Terteling, J. A., & Sons, Inc., P. O. Box 1428, Boise, Idaho (B-H-Hvy-RR)
 Triangle Constr. Co., P. O. Box 2617, Boise, Idaho (H-Hvy)
 Vernon Bros. Co., Box 1787, Boise, Idaho (B-Hvy)
 Watkins, C. W., & Son, P. O. Box 1786, Boise, Idaho (B)
 Western Constr. Co., Box 628, Pocatello, Idaho (H)
 Wise, J. H., & Son, 424 Broadway, Boise, Idaho (B)

12. ILLINOIS

(a) CHICAGO BUILDERS CHAPTER

President—Royal L. Brockob, R. L. Brockob Constr. Co., 815 S. Cicero Ave., Chicago 44, Ill.
Secretary—H. M. Stanton, Builders Bldg., 228 N. LaSalle St., Chicago 1, Ill.
Telephone—Franklin 2-4480

Ahern, Wm. S., Constr. Co., 159 E. Chicago Ave., Chicago 11, Ill. (B)
 Albrecht, E. J., Co., 2626 W. 26th St., Chicago 8, Ill. (B)
 Anderson, J. Emil, & Son, 1809 Balmoral Ave., Chicago 40, Ill. (B)
 Blauner Constr. Co., 208 N. Wells St., Chicago 6, Ill. (B)
 Boyle, M. J., & Co., 2480 N. Elston Ave., Chicago 47, Ill. (B-Hvy)
 Brockob, R. L., Constr. Co., 815 S. Cicero Ave., Chicago 44, Ill. (B)
 Builders Co., The, 700 N. State Bldg., 2 W. Huron St., Chicago 10, Ill. (B)
 Bulley & Andrews, 2040 W. Harrison St., Chicago 12, Ill. (B)
 Carroll Constr. Co., 333 N. Michigan Ave., Chicago 1, Ill. (B)
 Coath & Goss, Inc., 5103 W. Lake St., Chicago 44, Ill. (B)
 Continental Constr. Co., 340 N. Central Ave., Chicago 44, Ill. (B)
 Dahl-Stedman Co., 7 S. Dearborn St., Chicago 3, Ill. (B)
 Ellington-Miller Co., 25 E. Jackson Blvd., Chicago 4, Ill. (B-RR)
 Ericsson, Henry, Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Farthing Bros., 602 E. Hickory St., Streator, Ill. (B)
 Federal Constrs., Inc., 173 W. Madison St., Chicago 2, Ill. (B)
 FitzSimons & Connell Dredge & Dock Co., 10 S. LaSalle St., Chicago 3, Ill. (B-Hvy)
 Fuller, Geo. A., Company, Conway Bldg., 111 W. Washington St., Chicago 2, Ill. (B)
 Goss, Wm. R., Co., 435 N. Michigan Ave., Chicago 11, Ill. (B)
 Greene & Gust Co., 1154 Lunt Ave., Chicago 26, Ill. (B)

Griffiths, John, & Son Constr. Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Haigh, Jos., & Sons Co., 38 S. Dearborn St., Chicago 3, Ill. (B)
 Haynes, C. W., Co., 135 S. LaSalle St., Chicago 3, Ill. (B)
 Herlihy Mid-Continent Company, 135 S. LaSalle St., Chicago 3, Ill. (B)
 Hugh Constr. Co., Inc., 221 N. LaSalle St., Chicago 1, Ill. (B)
 Iber, C., & Sons, P. O. Box 1166, Peoria, Ill. (B)
 Jackson, A. L., Co., 161 E. Erie St., Chicago 11, Ill. (B)
 Johnson, Chas. B., & Son, 6 N. Michigan Ave., Chicago 2, Ill. (B)
 Johnson, Geo. D., Co., 420 5th Ave., Peoria 1, Ill. (B)
 Kaiser-Ducett Co., 80 E. Jackson Blvd., Chicago 4, Ill. (B)
 Kinnare Corp., The, 2816 W. Monroe St., Chicago 12, Ill. (B)
 Kralh Constr. Co., 350 N. Clark St., Chicago 10, Ill. (B)
 Krumdieck, Leo, 3622 S. Damen Ave., Chicago 18, Ill. (B)
 Larson, Algot B., Inc., 3837 W. Lake St., Chicago 24, Ill. (B)
 LaSalle Constr. Co., 343 S. Dearborn St., Chicago 4, Ill. (B)
 Leonard Constr. Co., 37 S. Wabash Ave., Chicago 3, Ill. (B)
 Lincoln, Martin P., Co., 2108 Berneau Ave., Chicago 18, Ill. (B)
 Lynch, W. J., Co., 1 N. LaSalle St., Chicago 2, Ill. (B)
 Macdonald Engr. Co., 188 W. Randolph St., Chicago 1, Ill. (B)
 Many, B. J., Co., Inc., 30 N. LaSalle St., Chicago 2, Ill. (B)
 Marhoefer, E. H., Jr. Co., 505 N. LaSalle St., Chicago 10, Ill. (B)
 McHugh, Jas., Constr. Co., 6449 S. South Park Ave., Chicago 37, Ill. (B)
 Meyne, Gerhardt F., Co., 7 S. Dearborn St., Chicago 3, Ill. (B)
 Midland Constrs., Inc., 222 W. Adams St., Chicago 6, Ill. (B)
 Missner Constr. Co., 2940 N. Campbell Ave., Chicago 18, Ill. (B)
 Nielsen, S. N., Co., 3059 Augusta Blvd., Chicago 22, Ill. (B)
 O'Neil, W. E., Constr. Co., 2751 N. Clybourn Ave., Chicago 14, Ill. (B)
 Permanent Constr. Co., 208 S. LaSalle St., Chicago 4, Ill. (B)
 Perry Constr. Co., 251 W. 79th St., Chicago 20, Ill. (B)
 Pfutzenreuter, Henry, & Sons, 2255 W. Grand Ave., Chicago 12, Ill. (B)
 Rymont Corp., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Sherry-Richards Co., 201 N. Wells St., Chicago 6, Ill. (B)
 Snyder, J. W., Co., 307 N. Michigan Ave., Chicago 1, Ill. (B)
 Sollitt, Geo., Constr. Co., 109 N. Dearborn St., Chicago 2, Ill. (B)
 Strandberg, L. B., & Son Co., 608 S. Dearborn St., Chicago 5, Ill. (B-H)
 Strandberg, Stewart O., Co., 134 S. LaSalle St., Chicago 3, Ill. (B-Hvy)

Thompson-Starrett Co., Inc., 231 S. LaSalle St., Chicago 4, Ill. (B)
 Thorgersen & Erickson Co., 228 N. LaSalle St., Chicago 1, Ill. (B)
 Tully Constr. Co., 33 N. LaSalle St., Chicago 2, Ill. (B-Hvy)
 Turner Construction Co., 105 W. Adams St., Chicago 3, Ill. (B)
 W-M Corp., 608 S. Dearborn St., Chicago 5, Ill. (B-Hvy-RR)
 Young & Sons Constr. Co., Inc., 7553 Cregier Ave., Chicago 49, Ill. (B)

(b) ASSOCIATED BUILDING CONTRACTORS OF ROCKFORD, ILLINOIS, INC.

President—Merrill F. Butler, Frank S. Pearce Co., 115 N. Court St., Rockford, Ill.
Vice President—Chas. Scandrol, Scandrol Constr. Co., 823 N. Madison St., Rockford, Ill.
Secretary-Treasurer—Mrs. Clara M. Miller, 203 Gateway Bldg., 121 7th St., Rockford, Ill.
Telephone—3-8513

Anderson, Jack E., 418 King St., Rockford, Ill. (B)
 Glass Constr. Co., P. O. Box 47, Belvidere, Ill. (B)
 Hokanson & Bloom, 507 N. Chicago Ave., Rockford, Ill. (B)
 Holm-Page Co., The, 2117 Kishwaukee St., Rockford, Ill. (B)
 Holmquist, F. E., P. O. Box 1541, 514 Warren Ave., Rockford, Ill. (B)
 Linden & Sons, Inc., 1102 10th St., Rockford, Ill. (B)
 Lundin & Grip, Inc., 1203 22d St., Rockford, Ill. (B)
 Pearce, Frank S., Co., 115 N. Court St., Rockford, Ill. (B)
 Scandrol Constr. Co., 823 N. Madison St., Rockford, Ill. (B)
 Schmeling, E. W., & Sons, Inc., 1031 School St., Rockford, Ill. (B)
 Security Bldg. Co., Inc., 717 E. Jefferson St., Rockford, Ill. (B)
 Sjostrom & Sons, Inc., 1718 7th Ave., Rockford, Ill. (B)

(c) ASSOCIATED GENERAL CONTRACTORS OF ILLINOIS

President—Wm. H. Kewley, Sangamo Constr. Co., P. O. Box 222, Springfield, Ill.
Executive Secretary—Milo P. Flickinger, 319½ S. 6th St., Leland Annex, Springfield, Ill.
Telephone—5746

Anderson Bros., 1700 Seminary St., P. O. Box 1571, Rockford, Ill. (H-Hvy)
 Arrow Petroleum Co., 7419 Franklin St., Forest Park, Ill. (B-H-Hvy)
 Bates & Rogers Construction Corp., 600 W. Jackson Blvd., Chicago 6, Ill. (Hvy-RR)
 Berenz & Son, 500 E. Bell St., Bloomington, Ill. (H-Hvy)
 Bremer, J. C., 928 S. Main, Hillsboro, Ill. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

ILLINOIS—Continued

- Bridges Paving Co., 1411 Central Industrial Ave., St. Louis 10, Mo. (H)
- Burch Constr. Co., Washington Bldg., Madison 3, Wis. (H-Hvy)
- Burner, J. R., Oblong, Ill. (H)
- Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
- Central Engr. Co., 2531 Rockingham Rd., Davenport, Iowa (B-H-Hvy)
- Champaign Asphalt Co., 205½ N. Walnut, Champaign, Ill. (H)
- Clark Bros. Co., 309 S. Jefferson Ave., Peoria 2, Ill. (H)
- Collins-Bruley Constr. Co., P. O. Box 228, Decatur 6, Ill. (H-Hvy)
- Denny, Dale, Constr. Co., 507 S. Green St., Anna, Ill. (H)
- Devine, R. P., 102 E. Walnut St., Watseka, Ill. (H)
- Edwardsville Constr. Co., Bk. of Edwardsville Bldg., Edwardsville, Ill. (H)
- Ellison Constr. Co., P. O. Box 53, Carthage, Ill. (H)
- Ernest Asphalt Sales Co., 320 N. 4th St., St. Louis 2, Mo. (H)
- Feutz, Frank C., Co., 901 Tenbroeck St., Paris, Ill. (H)
- Fleming & Kilgo Constr. Co., P. O. Box 191, (old St. Louis Rd.), East Alton, Ill. (H)
- Ford, R. W., 704 S. Market St., Marion, Ill. (H)
- Franklin Asphalt Co., Benton, Ill. (H)
- Freeman, Jesse H., Inc., 1608½ 5th Ave., Moline, Ill. (H)
- Gallagher Asphalt Co., Inc., P. O. Box 173, Thornton, Ill. (H)
- General Bldrs. Co., 314 N. 8th St., Springfield, Ill. (B-H-Hvy)
- General Paving Co., 30 E. John St., Champaign, Ill. (H-Hvy)
- Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H)
- Groves, S. J. & Sons Co., P. O. Box 312, Springfield, Ill. (H-Hvy)
- Gund Graham Co., State Bk. Bldg., Freeport, Ill. (H)
- Gunther, H. H., Constr. Co., 600 E. Main St., Galesburg, Ill. (H-Hvy)
- Hall, H. H., Constr. Co., 211 S. 15th St., East St. Louis, Ill. (H-Hvy)
- Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H)
- Hoeffken, M. Co. & Hoeffken Bros., Inc., 222 W. B St., Belleville, Ill. (H-Hvy)
- Holdren Constr. Co., P. O. Box 417, Mt. Vernon, Ill. (H)
- Huckaba & Sons Constr. Co., P. O. Box 104, Charleston, Ill. (H)
- Illinois Steel Bridge Co., 205 Allen Ave., Jacksonville, Ill. (H-Hvy)
- Ind, Chas., Co., R. R. #1, Point Ave., Rockford, Ill. (H)
- J-P Constr. Co., The, P. O. Box 123, 1750 State St., Chicago Heights, Ill. (H-Hvy)
- Jansen & Schaefer, 15th & Broadway, Pekin, Ill. (B-H-Hvy)
- Jefferson Asphalt Co., Inc., 1209 Casey, Mt. Vernon, Ill. (H)
- Joliet Bridge & Constr. Co., 68 N. Chicago St., Rm. 323, Joliet, Ill. (H-Hvy)
- Joyce Bros. Contr. Co., 715 Myers Bldg., Springfield, Ill. (H-Hvy)
- Keeley Bros. Contr. Co., 4211 State St., East St. Louis, Ill. (H-Hvy)
- Keeley, Jos. P., Contr. Co., 4409 Caseyville Ave., East St. Louis, Ill. (B-H)
- Lake Bros. Constr. Co., 900 S. 2d St., Effingham, Ill. (H)
- Lake, D. M., Constr. Co., Box 109, Shelbyville, Ill. (H)
- Larson, Elmer, Inc., 320 Prospect St., P. O. Box 383, DeKalb, Ill. (H)
- Lough, Wm., & Sons, 305 S. Granite St., Marion, Ill. (H)
- M & S Bituminous Oil & Constr. Co., 435 Missouri Ave., East St. Louis, Ill. (H)
- Maclair Asphalt Co., Inc., 6000 Collinsville Rd., East St. Louis, Ill. (H-Hvy)
- Madison Constr. Co., P. O. Box 222, Edwardsville, Ill. (H)
- Marsch, Louis, Morrisville, Ill. (H)
- Mason & Meents Constr. Co., Watseka, Ill. (H-Hvy)
- Mass, H. H., Constr. Co., Main St., Algonquin, Ill. (H-Hvy)
- Mautz & Oren, Inc., 610 W. Center St., Effingham, Ill. (H-Hvy)
- Mayes, Chas. A., Constr. Co., Albion, Ill. (H)
- McCalman Constr. Co., 629 Section St., P. O. Box 854, Danville, Ill. (H-Hvy)
- McCann & Co., Inc., Rm. 532, Reich Bldg., Springfield, Ill. (H)
- McCarthy Improvement Co., 602 Kahl Bldg., Davenport, Iowa (H-Hvy)
- Miller, W. L., Co., Elvaston, Ill. (H)
- Mitchell Contr. Co., 216 E. Madison St., Herrin, Ill. (H)
- Moore Bros., Inc., 2000 St. Claire Ave., East St. Louis, Ill. (H-Hvy)
- Moore Engr. Co., P. O. Box 420, Mt. Vernon, Ill. (H-Hvy)
- Moritz, C. J., Inc., Box 598, Effingham, Ill. (B-H-Hvy-RR)
- O'Connor Constr. Co., Box 292, 610 Reich Bldg., Springfield, Ill. (H-Hvy)
- Parham Constr. Co., 17 Signal Hill Blvd., East St. Louis, Ill. (H-Hvy)
- Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (H-Hvy)
- Powers-Thompson Constr. Co., 27 S. Chicago St., Joliet, Ill. (H-Hvy)
- Princeville Stone Co., Princeville, Ill. (H)
- Quad City Constr. Co., Inc., 644 25th Ave., Rock Island, Ill. (H-Hvy)
- Regenhardt Constr. Co., 302 Hemmelberger-Harrison Bldg., Cape Girardeau, Mo. (H-Hvy)
- Rocho, Edw. M., Constr. Co., 418 2d Natl. Bk. Bldg., Freeport, Ill. (H)
- Rockford Black Top Constr. Co., 1615 Westchester Dr., Rockford, Ill. (H)
- Ross, J. A., & Co., 4807 Fullerton Ave., Chicago 39, Ill. (H-Hvy)
- S. M. H. Constr. Co., 1500 N. Adams St., Peoria 3, Ill. (H)
- Sangamo Constr. Co., P. O. Box 222, Springfield, Ill. (H-Hvy)
- Sankey Bros., Inc., 402 Illinois Bldg., Springfield, Ill. (H)
- Shanks, A. J., Constr. Co., P. O. Box 464, Watseka, Ill. (H)
- Shappert Engr. Co., E. Menominee & Blaine Sts., Belvidere, Ill. (H-Hvy)
- Simonds, E. T., Constr. Co., 202 W. Willow St., Carbondale, Ill. (H-Hvy)
- Stillfield, Ben K., Constr. Co., 517 12th St., Rock Island, Ill. (H)
- Stocker Gravel & Constr. Co., 509 Main St., Highland, Ill. (B-H)
- Strunk Bros., Tiskilwa, Ill. (H)
- Swords-McDougal Co., 1500 N. Adams St., Peoria 3, Ill. (H-Hvy)
- Tillman, G. E., Co., 702 N. Locust St., Centralia, Ill. (H)
- Triangle Constr. Co., 480 N. Evergreen Ave., Kankakee, Ill. (H-Hvy)
- Trinidad Asphalt Mfg. Co., 600 S. Theresa Ave., St. Louis 3, Mo. (H)
- Tri-State Engr. Co., P. O. Box 615, Benton, Ill. (H-Hvy)
- Tritt Bros., Belleville Natl. Bk. Bldg., Belleville, Ill. (H-Hvy)
- Trompeter Constr. Co., 2428 4th St., Peru, Ill. (H)
- Valley Bldrs., Inc., 100 E. St. Paul St., Spring Valley, Ill. (H-Hvy)
- Valley Engr. Co., Colson Bldg., 116½ W. Main St., St. Charles, Ill. (Hvy)
- Wetherby, J. P., Constr. Co., 1016 W. Superior, Ottawa, Ill. (H)
- Whetzel Bros., 201 N. Walnut St., Champaign, Ill. (H-Hvy)
- Zimmerly Constr. Co., S. Marshall St., Paris, Ill. (H-Hvy)

(d) SOUTHERN ILLINOIS BUILDERS ASSOCIATION

President—Chas. A. Rook, R. & R. Constr. Co., 735 Park Dr., Alton, Ill.
Secretary-Treasurer—C. M. Lomax, S. M. Wilson & Co., State Bldg., 1903 State St., Granite City, Ill.
Telephone: Tri City 3456

- Bauer Bros. Constr. & Supply Co., 424 Lebanon Ave., Belleville, Ill. (B-Hvy)
- Conduit Contr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (Hvy)
- Fruin-Colnon Contr. Co., 1706 Olive St., St. Louis 3, Mo. (B-Hvy-RR)
- Ganschietz, Ferd., 501 N. 18th St., East St. Louis, Ill. (B)
- General Contr. Co., Inc., 23d & Monroe Ave., Granite City, Ill. (B-Hvy)
- Grabbe, H. A., Constr. Co., 409 Commercial Bldg., Alton, Ill. (B-Hvy)
- Hall, H. H., Constr. Co., 211 S. 15th St., East St. Louis, Ill. (B-Hvy)
- Hoeffken Bros. Constr. Co., N. 3d & W. B Sts., Belleville, Ill. (B-H-Hvy)
- Keeley Bros. Constr. Co., 4211 State St., East St. Louis, Ill. (H-Hvy)
- Keeley, John J., 2030 State St., East St. Louis, Ill. (B)
- Latta, J. E., Constr. Co., 6609 Latta Pl., St. Louis 20, Mo. (B-Hvy)
- Moore Bros., Inc., 2000 St. Claire Ave., East St. Louis, Ill. (B)
- Murch-Jarvis Co., Inc., 718 Locust St., St. Louis, Mo. (B)
- R. & R. Constr. Co., 735 Park Dr., Alton, Ill. (B)
- Stephens, Edgar, & Sons, Inc., 216 10th St., Cairo, Ill. (B)
- Tarleton, G. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-H-Hvy)

ILLINOIS—Continued

Watson, Harold L., 1101 Missouri Ave., East St. Louis, Ill. (B-Hvy)
 Wheatley, Geo. W., & Son, Dupu, Ill. (B)
 Wilson, C. T., Contr. Co., 99 E. Grand, St. Louis 7, Mo. (B)
 Wilson, S. M., & Co., State Bldg., 1903 State St., Granite City, Ill. (B)

Local Members

Evans Constr. Co., Esquire Theatre Bldg., 1324 S. MacArthur Blvd., Springfield, Ill. (B)
 Felmley, John, Co., 603 Peoples Bank Bldg., Bloomington, Ill. (B)
 Herlihy Mid-Continent Company, 135 S. La-Salle St., Chicago 3, Ill. (B-Hvy-RR)
 Jobst, V., & Sons, 1299 Lehmann Bldg., Peoria 2, Ill. (B)
 Simmons, J. L., Company, Inc., 2146 N. Woodford St., P. O. Box 69, Decatur 60, Ill. (B-Hvy)

13. INDIANA

(a) INDIANA HIGHWAY CONSTRUCTORS, INC.

President—Ray L. Schutt, R. L. Schutt Co., 215 E. New York St., Indianapolis 4, Ind.

Executive Secretary—W. M. Holland, 801 Roosevelt Bldg., Indianapolis 4, Ind.

Telephone: Lincoln 7547

Allen, G. H., 804 N. 5th St., Vincennes, Ind. (H)
 Babcock, W. C., Constr. Co., P. O. Box 237, Rensselaer, Ind. (H-Hvy)
 Berns Constr. Co., 312 E. Washington St., Indianapolis 4, Ind. (H)
 Bontrager Constr. Co., 618 W. Indiana Ave., Elkhart, Ind. (H)
 Brooks Constr. Co., 1123 Barthold St., Fort Wayne 7, Ind. (H)
 Calumet Paving Co., W. 96th St. & Zionsville Rd., Zionsville, Ind. (H-Hvy)
 Cochran, C. B., 5003 Boulevard Pl., Indianapolis 8, Ind. (H)
 Curry Constr. Co., 200 E. 3d St., Bloomington, Ind. (H)
 Dailey, L. W., Constr. Co., 1034 Oakland St., Fort Wayne 7, Ind. (H)
 DeBolt Constr. Co., Inc., P. O. Box 208, Richmond, Ind. (H)
 Dehner, John, Inc., 1206 Clark St., Fort Wayne 7, Ind. (H)
 Deniston & Garber, P. O. Box 65, Rochester, Ind. (H)
 Dillingham Constr. Co., 3 Harrison Blvd., Valparaiso, Ind. (H)
 Dougherty, A. L., Co., 403 Guaranty Bldg., Indianapolis 4, Ind. (H)
 Fauber Constr. Co., P. O. Box 496, Lafayette, Ind. (H)
 Fauber, L. Walker, 319 Claremont Ave., Ashland, Ohio (H)
 Feigel Constr. Corp., 403 Court Bldg., Evansville 19, Ill. (H)
 Gast Constr. Co., P. O. Box 249, 216 S. Columbia St., Warsaw, Ind. (H)

General Dredg. Co., Inc., 2200 LaFontaine St., Fort Wayne 6, Ind. (H)
 Goodwin Constr. Co., Inc., P. O. Box 157, Danville, Ind. (H)
 Grace Constr. & Supply Co., The, 1825 S. Anthony Blvd., Fort Wayne 4, Ind. (H)
 Grady Bros., Inc., Carmel, Ind. (H)
 Grady Bros., Inc., 915 S. Somerset Ave., Indianapolis 23, Ind. (H)
 Greene, Paul N., Co., 1910 Columbia Ave., Fort Wayne 3, Ind. (H)
 Gunsaulus, L. H., & Son, Kendallville, Ind. (H)
 Hart & Hart, P. O. Box 338, Providence, Ky. (H)
 Harvey, Geo. R., & Son, Danville, Ind. (H)
 Hipskind Drainage Co., 1725 Winter St., Fort Wayne 4, Ind. (H)
 J-P Constr. Co., The, 1750 State St., P. O. Box 123, Chicago Heights, Ill. (H-Hvy)
 Kahl & Mahon, 402 N. Main St., Liberty, Ind. (H)
 Kelly, John F., P. O. Box 267, 34th St. & Fort Harrison Rd., Terre Haute, Ind. (H)
 King, Robt. H., 85 S. Washington St., Danville, Ind. (H)
 Kruzick, Geo., Constr. Co., P. O. Box 87, Winamac, Ind. (H)
 MacDonald, W. T., 5673 Guilford Ave., Indianapolis 5, Ind. (H)
 Magaw, W. L., Hawkins Rd., P. O. Box 330, Richmond, Ind. (H)
 McCalman Constr. Co., 619 Section St., P. O. Box 854, Danville, Ill. (H-Hvy)
 McMahan Constr. Co., 107 E. 9th St., Rochester, Ind. (H)
 Meitz-Spears-Dehner Co., Inc., 1212 Clark St., Fort Wayne 7, Ind. (H)
 Meshberger Bros. Stone Corp., P. O. Box 81, Linn Grove, Ind. (H)
 Middle West Roads Co., P. O. Box 30, Noblesville, Ind. (H)
 Moellering Constr. Co., 241 Murray St., Fort Wayne 5, Ind. (H-Hvy)
 Mohr Constr. Co., Inc., 1420 S. Union St., Kokomo, Ind. (H)
 Myers, Ralph, Contr. Corp., Salem, Ind. (H-Hvy)
 O'Connor, J. C., & Sons, Inc., 2104 Miner St., Fort Wayne 6, Ind. (H-Hvy)
 Olinger Constr. Co., P. O. Box 96, Olinger Bldg., Huntingburg, Ind. (H-Hvy)
 Phend & Brown, Milford, Ind. (H)
 Powers-Thompson Constr. Co., 27 S. Chicago St., Joliet, Ill. (H)
 Rieth-Riley Constr. Co., W. Madison St., P. O. Box 477, Goshen, Ind. (H-Hvy)
 Rock Road Constr. Co., 5915 N. Rogers Ave., Chicago 30, Ill. (H)
 Ruckman-Hansen, Inc., 3617 Leo Rd., Fort Wayne 8, Ind. (H)
 Ryan Constr. Corp., 402 Court Bldg., Evansville 19, Ind. (H-Hvy)
 Ryan & Ryan, Inc., P. O. Box 346, Washington, Ind. (H)
 Scheirer, Wilbur C., 305 Harvard Ter., Frankfort, Ind. (H)
 Schutt, R. L., Co., 215 E. New York St., Indianapolis 4, Ind. (H)
 Serodino, V. P., Inc., 7 W. North Bend Rd., Cincinnati 16, Ohio (H)

Sheehan Constr. Co., 205 Holliday Bldg., 241 E. Ohio St., Indianapolis 4, Ind. (H-Hvy)
 Skinner, A. M., Co., Morocco, Ind. (H)
 Smalley, D. R., & Sons, Inc., 426 W. Market St., Celina, Ohio (H)
 Smith & Johnson, Inc., P. O. Box 650, 1799 Kentucky Ave., Indianapolis 6, Ind. (H-Hvy)
 Studebaker, C. A., Constr. Co., Uniondale, Ind. (H)
 Stuntz-Yeoman Co., Inc., Delphi, Ind. (H)
 Sweet, J. S., Co., R. R. 1, Cambridge City, Ind. (H)
 Tharp, Harold, Fountain City, Ind. (H)
 Thompson Constr. Co., Inc., 3840 Prospect St., Indianapolis 3, Ind. (H)
 Tisdale & Collins Constr. Co., P. O. Box 87, Beech Grove, Ind. (H)
 Traylor Bros., Inc., Sta. B, Box 66, Evansville 12, Ind. (H)
 Tri-Lake Constr. Co., Inc., P. O. Box 286, Columbia City, Ind. (H)
 Tri-State Constr. Co., The, 3100 E. 56th St., Indianapolis 20, Ind. (H)
 Vaughan, D. M., 619 S. 10th St., Lafayette, Ind. (H)
 Vogel, Wm. D., 3760 E. St. Clair St., Indianapolis 1, Ind. (H)
 Walsh & Ikeler, R. R. 2, Gary, Ind. (H)
 Wayne Paving, Inc., 1825 S. Anthony Blvd., Fort Wayne 4, Ind. (H)
 Weikel Constr. Co., Inc., The, 1150 Fairview Ave., Fort Wayne 8, Ind. (H)
 White, Wm. L., & Son, 1438 Harding Ave., Terre Haute, Ind. (H)
 Wilson, J. L., 135 W. Mechanic St., Bloomfield, Ind. (H)
 Winslow Constr. Co., 508 N. Water St., Salem, Ind. (H)

(b) INDIANA GENERAL CONTRACTORS' ASSOCIATION

President—Delbert B. Meyer, Ostrom Constr. Co., 335 K. of P. Bldg., Indianapolis 4, Ind.

Executive Secretary—C. Oliver Holmes, 1456 N. Delaware St., Indianapolis 2, Ind.

Telephone: Riley 2382

Abraham, W. J., & Sons, Inc., 8th & Pershing Sts., Seymour, Ind. (B)
 Brandt Bros. & Co., 1925 Fletcher Ave., Indianapolis 3, Ind. (B)
 Bryant Co., Cincinnati St. & Pennsylvania R. R., P. O. Box 118, Franklin, Ind. (B)
 Bunker, Harry, & Son, Cromwell, Ind. (B)
 Burrell, Thos. L., Inc., 102 E. McCarty St., Indianapolis 25, Ind. (B-Hvy)
 Colvin, Leslie, 507 Board of Trade Bldg., 143 N. Meridian, Indianapolis 4, Ind. (B)
 Crabtree-Maule Corp., 529 N. W. 7th, Friends Box 33, Richmond, Ind. (B-Hvy)
 Cramer, E. F., 224 N. Alabama St., Indianapolis 4, Ind. (B)
 Drew, Jas. H., Co., 503 Architects & Bldrs. Bldg., Indianapolis 4, Ind. (B)
 Dunlap & Co., Inc., 522 Jackson St., Columbus, Ind. (B)
 Fatout Bldg. Co., The, 3422 Winthrop Ave., Indianapolis 5, Ind. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

INDIANA—Continued

Garriott, Jay A., P. O. Box 215, Bedford, Ind. (B)
 Geupel, Carl M., Constr. Co., 1919 N. Meridian St., Indianapolis 2, Ind. (B)
 Glaser, A. J., Co., Inc., P. O. Box 649, 401 S. Lincoln St., Muncie, Ind. (B)
 Glenroy Co., 450 S. Ritter Ave., Indianapolis 19, Ind. (B)
 Hanson, Frank W., 645 N. Davidson St., Indianapolis 2, Ind. (B)
 Harlos Constr. Co., 219 W. 4th St., Bloomington, Ind. (B)
 Huber, Hunt & Nichols, Inc., P. O. Box 128, Indianapolis 6, Ind. (B)
 Hunnicutt, A. R., Co., 2110 Spring St., P. O. Box 128, New Castle, Ind. (B)
 Juerling, Vincent H., & Son, 1229 S. 8th St., Richmond, Ind. (B)
 Jungclaus, Wm. P., Co., Inc., 825 Massachusetts Ave., Indianapolis 4, Ind. (B)
 Krebay Constr. Co., 108 E. 9th St., Indianapolis 2, Ind. (B)
 Messmer, Jack G., Constr. Co., 504 Holliday Bldg., 241 E. Ohio St., Indianapolis 4, Ind. (B)
 Ostrom Constr. Co., 335 K. of P. Bldg., Indianapolis 4, Ind. (B)
 Reddington, J. D., 6160 N. Sherman Dr., Indianapolis 20, Ind. (B)
 Repp & Mundt, Inc., 1604 Cottage Ave., Columbus, Ind. (B)
 Schenck, R. E., Co., 1538 N. Meridian St., Indianapolis 2, Ind. (B)
 Service Constr. Co., 533-5 K. of P. Bldg., Indianapolis 4, Ind. (B)
 Shelby Constr. Co., Inc., 1235 Jefferson Ave., Shelbyville, Ind. (B)
 Simmons, J. L., Co., Inc., 710 Union Title Bldg., Indianapolis 4, Ind. (B-Hvy)
 Snyder, Lawrence J., Corp., 110 N. Elm St., P. O. Box 772, Muncie, Ind. (B)
 Stackhouse, A. V., Co., 2611 Winthrop Ave., Indianapolis 5, Ind. (B)
 Stone, L. L., Inc., E. 45th St., P. O. Box 252, Lawrence, Ind. (B-Hvy)
 Tousley, H. D., Co., Inc., 552 Massachusetts Ave., Indianapolis 4, Ind. (B)
 Wilhelm, F. A., 3914 Prospect St., Indianapolis 3, Ind. (B)
 Wise, Orville W., 2537 Burton Ave., Indianapolis 23, Ind. (B)

(Calumet Division)

Adinolfi, John A., 3827 Main St., East Chicago, Ind. (B)
 Becker, Peter, Box 215, Calumet City, Ill. (B)
 Clark, Roy C., 804 E. Chicago Ave., East Chicago, Ind. (B-Hvy)
 Foster, J. M., & Co., 5704 W. 5th Ave., P. O. Box 622, Gary, Ind. (B-Hvy)
 Gerometta Constr. Co., 857 Virginia St., Gary, Ind. (B)
 Larson-Danielson Constr. Co., Inc., 302 Tyler St., La Porte, Ind. (B)
 Olney, H. B., Inc., 1202 E. Chicago Ave., East Chicago, Ind. (B-Hvy)
 Rahn, John F., 500 W. 150th St., East Chicago, Ind. (B-Hvy)
 Rowley, Fred C., & Sons, Inc., 4732 Calumet Ave., Hammond, Ind. (B-H-Hvy-RR)

Rueth, Leo, & Sons, Inc., 1050 Cherry St., Hammond, Ind. (B)
 Superior Constr. Co., 1800 E. 7th Ave., P. O. Box 630, Gary, Ind. (B)
 Swenson Carlson Bldrs., Inc., Cline & Chicago Ave., P. O. Box 330, East Chicago, Ind. (B)
 Tonn & Blank, Inc., 104 N. Franklin St., Michigan City, Ind. (B)

(Evansville Division)

Aalco Constr. Co., 1171 Diamond Ave., Evansville, Ind. (B)
 Anderson & Loer, 410 W. Iowa St., Evansville 11, Ind. (B)
 Anderson & Veatch, Inc., 223 S. E. 8th St., Evansville 9, Ind. (B)
 Rust Constr. Corp., P. O. Box 695, Evansville 2, Ind. (B)
 Smith Constr. Co., 484 S. Governor St., Evansville, Ind. (B)
 Traylor Bros., Inc., Sta. B, Box 66, Evansville 12, Ind. (H)

(Fort Wayne Division)

Buesching Bros. Constr. Co., 219 E. Berry St., Fort Wayne 2, Ind. (B-Hvy)
 Hagerman Constr. Corp., 403 Strauss Bldg., Fort Wayne 2, Ind. (B)
 Indiana Constr. Co., Inc., 201 Ft. Wayne Bk. Bldg., Fort Wayne 2, Ind. (B)
 Irmischer, Max, & Sons, Inc., 1113 Ft. Wayne Bk. Bldg., Fort Wayne 2, Ind. (B)
 Schenkel, Wm. P., & Sons, 1120 St. Marys Ave., Fort Wayne 7, Ind. (B)
 Sheets, W. A., & Sons, Inc., 1057 Osage St., P. O. Box 119, Fort Wayne 1, Ind. (B)
 Wermuth, Inc., 1036 St. Mary's Ave., Fort Wayne 7, Ind. (B-Hvy)

(South Bend Division)

Christman, H. G., Constr. Co., Inc., 850 Fellows St., South Bend 24, Ind. (B)
 Schumacher, Peter, & Sons, Inc., 321 S. Spring St., Mishawaka, Ind. (B)
 Sollitt Constr. Co., Inc., 301 S. Columbia St., South Bend 24, Ind. (B)

(Terre Haute Division)

Cutshall, J. M., & Sons, Riddell Natl. Bk. Bldg., Brazil, Ind. (B)
 Garmon, C. H., & Son, 1201 Crawford St., Terre Haute, Ind. (B)
 Johnson, Drake & Piper, Inc., 112 N. 7th St., P. O. Box 595, Terre Haute, Ind. (B)
 Kretz, John H., 409 Center St., Washington, Ind. (B)
 Roehm Bros., Inc., 30½ N. 5th St., Terre Haute, Ind. (B)
 Sanford, W. H., Corp., 306 N. 11th St., P. O. Box 297, Terre Haute, Ind. (B)
 Snyder Constr. Co., Inc., 1900 Chestnut St., Vincennes, Ind. (B)

(Wabash Valley Division)

Barnes, Jas. I., Constr. Co., Barnes Bldg., Logansport, Ind. (B)

Bowman Constr. Co., 1127 S. Branson St., Marion, Ind. (B)
 Doran, A. L., R. R. #4, Peru, Ind. (B)
 Dunkin, W. R., & Son, 750 S. Indiana St., Bluffton, Ind. (B)
 Harrelld Bros., 901½ W. 3d St., Marion, Ind. (B)
 Kemmer, A. E., Box 375, 3d & Brown Sts., Lafayette, Ind. (B)
 Kettelhut, K. H., 70-B Lafayette Loan & Trust Bldg., Lafayette, Ind. (B)
 Mayfield Constr. Co., 1311 N. Ann St., Kokomo, Ind. (B)
 Price & Price, Inc., 318 Ferry St., Lafayette, Ind. (B)
 Siegfried, Jos. E., 409 Perrin Ave., Lafayette, Ind. (B)
 Wolf Constr. Co., 613 W. Market St., Logansport, Ind. (B)

14. IOWA

(a) ASSOCIATED GENERAL CONTRACTORS OF IOWA

President—Arthur D. Ladehoff, Clinton Engr. Co., 1323 N. 2d St., Clinton, Iowa

Executive Secretary—O. W. Crowley, 707 Keo Way, Des Moines 9, Iowa Telephone: 4-6287

Abramson, John P., Constr. Co., 720 Savings & Loan Bldg., Des Moines 9, Iowa (B-H-Hvy-RR)
 Alexander & Repass, 309 Securities Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Andersen Contr. Co., 1225 Stephenson Way, Des Moines 14, Iowa (H)
 Anderson, Adolph G., 1403 1st Ave., E., Spencer, Iowa (H)
 Armstrong, J. D., Co., Inc., Box 307, Ames, Iowa (H)
 Atkinson, C. H., Paving Co., Inc., Chillicothe, Mo. (H-Hvy)
 Atlantic Constr. Co., Inc., 1650 Northwest Dr., Des Moines 10, Iowa (H)
 Baker, Myron, P. O. Box 61, Gilmore City, Iowa (H)
 Barker-Rose Constr. Co., 109 S. 6th St., Marshalltown, Iowa (H)
 Benderoff, V. C., S. E. 5th & Hartford, Des Moines 15, Iowa (H)
 Blunk, J. C., Constr. Co., 524 W. Main St., Ottumwa, Iowa (H)
 Booth & Olson, Inc., Insurance Exch. Bldg., Box 304, Sioux City 2, Iowa (H-Hvy)
 Boyette, M. E., Constr. Co., Kensett, Iowa (H)
 Braden Constr. Co., Griswold, Iowa (H)
 Brogan Constr. Co., 307 Masonic Temple Bldg., Des Moines 9, Iowa (H)
 Burch Constr. Co., Washington Bldg., Madison 3, Wis. (H)
 Burch, R. B., Inc., 1718 Park Ave., S. E., Cedar Rapids, Iowa (H-Hvy)
 Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
 Carlson Constr. Co., Box K, Essex, Iowa (H)
 Carlson Constr. Co., c/o O. H. Johnson, 656 N. 59th St., Omaha, Nebr. (H)

A.G.C. DIRECTORY

IOWA—Continued

Carlson, Fred, Co., Inc., Decorah, Iowa (H)
 Central Constr. Co., Indianola, Iowa (H)
 Central Engr. Co., 2531 Rockingham Rd.,
 Davenport, Iowa (B-H-Hvy)
 Christensen Bros., 3011 Virginia St., Sioux
 City 18, Iowa (H)
 Clark Bros. Constr. Co., Hinton, Iowa (H)
 Clinton Bridge Corp., 101 S. 2d St., Clinton,
 Iowa (H-Hvy)
 Clinton Engr. Co., 1323 N. 2d St., Clinton,
 Iowa (H-Hvy)
 Coffeen, A. R., Co., 906 S. Mill St., Decorah,
 Iowa (B-H-Hvy)
 Cohron, A. M., & Son, 6110 S. W. 12th St.,
 Des Moines, Iowa (B-H)
 Cole, Ben, & Son, 114 Clark Ave., Ames,
 Iowa (B-H-Hvy)
 Concrete Materials & Constr. Co., Box 790,
 405 Granby Bldg., Cedar Rapids, Iowa
 (H)
 Condon-Cunningham Company, 4229 Lafay-
 ette Ave., Omaha 3, Nebr. (H-Hvy-RR)
 Costigan, J. C., Elkader, Iowa (B-H)
 Council Bluffs Constr. Co., 106 S. 17th St.,
 Box 646, Council Bluffs, Iowa (H)
 Cunningham-Reis Co., 421 Liberty Bldg., Des
 Moines 9, Iowa (H-Hvy-RR)
 Curphy, Bill, Co., 448 Insurance Exch. Bldg.,
 Des Moines, Iowa (H-Hvy-RR)
 Des Moines Asphalt Paving Co., Box 922,
 Des Moines 4, Iowa (H)
 Des Moines Steel Co., 421 S. W. 4th St., Des
 Moines 4, Iowa (H-Hvy)
 Dixon Bros. Co., Correctionville, Iowa (H)
 Dobson Bros. Constr. Co., 512 1st Natl. Bk.
 Bldg., Lincoln, Nebr. (H-Hvy)
 Duesenberg, E. M., Inc., Clear Lake, Iowa
 (H)
 Duvall, P. K., Inc., Logan, Iowa (H)
 Easton Constr. Co., 315½ Main St., Ames,
 Iowa (H)
 Eblen, Orville, Atlantic, Iowa (H)
 Ekdahl, Hilding, Cumberland, Iowa (H)
 Elliott, Clyde, Independence, Iowa (H)
 Emco Constr. Co., Algona, Iowa (H)
 Everds Bros., Box 374, Algona, Iowa (H)
 Falk, L. R., St. Ansgar, Iowa (H)
 Ferguson-Diehl, Inc., Jefferson, Iowa (H-Hvy)
 Gee Constr. Co., P. O. Box 15, Shenandoah,
 Iowa (H)
 Gillotti Constr. Co., 1405 S. E. 1st St., Des
 Moines 15, Iowa (H-Hvy)
 Gjellefeld Constr. Co., Forest City, Iowa
 (Hvy)
 Gould Constr. Co., The, 517 S. Birchwood
 Ave., Davenport, Iowa (Hvy-RR)
 Graves Bros. Co., Melvin, Iowa (H)
 Green Constr. Co., 312 Masonic Temple Bldg.,
 Des Moines 9, Iowa (H-Hvy)
 Green, Ralph, & W. L. Groesbeck, 312 Ma-
 sonic Temple, Des Moines 9, Iowa (H-
 Hvy)
 Haegg Constr. Co., Box 769, Cedar Rapids,
 Iowa (H)
 Hanson Constr. Co., 106 W. 17th, Washing-
 ton, Iowa (H-Hvy)
 Hargrave Constr. Co., 2424 Bever Ave., S. E.,
 Cedar Rapids, Iowa (H)
 Harrison Engr. & Constr. Co., 4638 Mill
 Creek Pkwy., Kansas City 2, Mo. (H-
 Hvy)

Herrick, G. G., Box 1355, Des Moines 9,
 Iowa (H-Hvy)
 Hoak Constr. Co., Box 37, West Des Moines,
 Iowa (Hvy)
 Hohe Engr. Co., 2121 E. 4th St., Sioux City
 19, Iowa (H)
 Horrabin, Wm., Contr. Co., 15 E. College,
 Iowa City, Iowa (H)
 Hymans, John, & Sons, Hull, Iowa (H)
 Iowa Bridge Co., 311 Central Natl. Bldg., Des
 Moines 9, Iowa (Hvy)
 Jensen Constr. Co., 1901 Easton Blvd., Des
 Moines 16, Iowa (H-Hvy)
 Jensen & Krage, 2220 Hawkeye Dr., Sioux
 City 19, Iowa (H-Hvy)
 Johnson, M. L., 112 32d St. Dr., S. E., Cedar
 Rapids, Iowa (H)
 Johnston, Wagner, Constr. Co., 622 Insurance
 Exch. Bldg., Sioux City 13, Iowa (H)
 Kaser Constr. Co., Box 36, West Des Moines,
 Iowa (H)
 Kehe Constr. Co., Box 324, Waverly, Iowa
 (B-Hvy)
 Kiewit, Peter, Sons' Co., 1024 Omaha Natl.
 Bk. Bldg., Omaha, Nebr. (B-H-Hvy-RR)
 Kitzmann Constr. Co., 513 Boulevard R.I.,
 Keokuk, Iowa (B-Hvy)
 Koss Construction Company, 205 Farm Bu-
 reau Bldg., Des Moines 9, Iowa (H-Hvy-
 RR)
 Kramme, E. A., Co., Inc., 311 Central Natl.
 Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Kucharo Constr. Co., 225 Jewett Bldg., Des
 Moines 9, Iowa (B)
 Leonhard, J. T., Constr. Co., Columbus Junc-
 tion, Iowa (H)
 Linnan, W. B., Pocahontas, Iowa (H)
 Lippert Bros., Inc., 827 Monona St., Boone,
 Iowa (B-Hvy)
 Lowe Constr. Co., Box 58, Marion, Iowa (H)
 Lundeen Constr. Co., Montezuma, Iowa (H)
 Lytle, C. F., Company, Box 206, Sioux City,
 Iowa (H-Hvy-RR)
 Mathis, A. F., 205 4th St., West Des Moines,
 Iowa (Hvy)
 McCarthy Improvement Co., 602 Kahl Bldg.,
 Davenport, Iowa (H-Hvy)
 McGuire, M. T. & John T., Algona, Iowa (H)
 McNeill, J. W., Constr. Co., 4509 3d Ave.,
 Sioux City 13, Iowa (H)
 Melberg, Amos, 316 19th St., S. E., Cedar
 Rapids, Iowa (H)
 Mickle & Ross Constr. Co., Box 541, Newton,
 Iowa (H)
 Miller, John G., Constr. Co., 222 W. Mullan
 Ave., Waterloo, Iowa (B)
 Montgomery, F. O., Co., Humboldt, Iowa (H)
 Moser, F. A., Farmersburg, Iowa (H)
 Mott Constr. Co., 308 W. Prairie St., Center-
 ville, Iowa (Hvy)
 Myers Bros., Ft. Atkinson, Iowa (H-RR)
 National Constr. Co., 1335 S. 20th St., Omaha
 2, Nebr. (H)
 Neumann, Arthur H., & Bros., Inc., 514 Hub-
 bell Bldg., Des Moines 9, Iowa (B)
 Noel, Harry, 1414 Grand Ave., Spencer, Iowa
 (H)
 Norman, F. L., Box 215, Sidney, Iowa (B)
 North Central Constr. Co., Hampton, Iowa
 (H)
 Olson, A., Constr. Co., 1225 Commercial St.,
 Waterloo, Iowa (H)

Ostermann, Gus, & Sons, Ocheyedan, Iowa
 (H)
 Peterson Bros., Laurens, Iowa (H)
 Pittsburgh-Des Moines Steel Co., 1015 Tuttle
 St., Des Moines 9, Iowa (H-Hvy)
 Quealy Excavating & Wrecking Co., 650 S.
 16th St., Ft. Dodge, Iowa (Hvy-RR)
 Roberts Bros., Chariton, Iowa (H)
 Ryan, J. T., 111 1st Ave., N. W., Oelwein,
 Iowa (H)
 Sani Constr. Co., 102 Forest Ave., Des Moines
 14, Iowa (H)
 Schmidt Constr. Co., Winfield, Iowa (H)
 Schroeder, H. F., & Sons, Arcadia, Iowa (H)
 Scothorn Constr. Co., Cherokee, Iowa (H)
 Shirey, C. W., 84 W. Mullan, Waterloo, Iowa
 (H-Hvy)
 Shirley Constr. Co., 1103 W. O. W. Bldg.,
 Omaha 2, Nebr. (H)
 Spencer, E. B., Constr. Co., 2840 W. 4th St.,
 Waterloo, Iowa (H)
 States Constr. Co., 3018 Kingman Blvd., Des
 Moines 11, Iowa (H)
 Strother, J. P., Constr. Co., Eldon, Iowa (H)
 Strother & Riehm, Inc., Eldon, Iowa (H)
 Taylor, C. B. & M. R., Decorah, Iowa (H-
 Hvy)
 Union Constr. Co., 227 Jewett Bldg., Des
 Moines 9, Iowa (H-Hvy)
 Upham, Dale, Box 184, West Union, Iowa
 (H)
 Van Buskirk, Ira, & Sons, Hawarden, Iowa
 (H)
 Van Dusseldorp, Eben, 724 E. Division St.,
 Colfax, Iowa (H)
 Weaver, M. O., Inc., 539 5th St., Des Moines
 9, Iowa (H)
 Weitz Co., Inc., The, 406 Fleming Bldg., Des
 Moines 9, Iowa (B)
 Welden Bros., Iowa Falls, Iowa (H-Hvy-RR)
 Western Contracting Corporation, 400 Benson
 Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Western Engr. Co., Harlan, Iowa (H)
 Wickes Engr. & Constr. Co., 1441 2d Ave.,
 Des Moines 14, Iowa (B-H)

(b) MASTER BUILDERS OF IOWA

President—T. R. Lovejoy, Lovejoy
 Constr. Co., 1118 Mulberry St.,
 Des Moines 9, Iowa
Executive Secretary—Walter W. Moel-
 ler, 110 Hubbell Bldg., Des Moines,
 Iowa
Telephone: 8-1081

Allied Engr. Co., Atlantic, Iowa (B)
 Andersen Constr. Co., 619 S. Main St., Coun-
 cil Bluffs, Iowa (B)
 Bey, Roy K., 1226 Elmhurst Dr., N. E., Cedar
 Rapids, Iowa (B)
 Bride & Didier, 1524 25th St., Sioux City,
 Iowa (B)
 Castle, E. B., & Son, 231 12th St., Marion,
 Iowa (B)
 Christensen Constr. Co., 839 3d Ave., Sibley,
 Iowa (B)
 Clinton Engr. Co., 1323 N. 2d St., Clinton,
 Iowa (B)
 Coffeen, A. R., Co., 906 S. Mill St., Decorah,
 Iowa (B)
 Cohron, A. M., & Son, 6110 S. W. 12th St.,
 Des Moines, Iowa (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

IOWA—Continued

- Cole, Ben, & Son, 114 Clark Ave., Ames, Iowa (B)
- Conlon Constr. Co., 240 Railroad Ave., Dubuque, Iowa (B)
- Coomer, R. M., Constr. Co., 523 Insurance Exch. Bldg., Sioux City, Iowa (B)
- Cowan, H. J., Algona, Iowa (B)
- Darner, Phil, 231 W. Main St., Ottumwa, Iowa (B)
- Davey & Moen, 604 Brick & Tile Bldg., Mason City, Iowa (B)
- Dimmitt Constr. Co., Box 287, Shenandoah, Iowa (B)
- Drape Constr. Co., 212 2d Ave., N. W., Waverly, Iowa (B)
- Epperson & Co., Box 327, Sumner, Iowa (B)
- Fagre Constr. Co., 1201 3d Ave., So., Estherville, Iowa (B)
- Fell & Anton, 219 W. Mullan, Waterloo, Iowa (B)
- Forest City Improvement Co., Forest City, Iowa (B)
- Garmer & Stiles Co., 519 14th St., Des Moines, Iowa (B)
- Geiger Constr. Co., 807 3d Ave., Sheldon, Iowa (B)
- Gethmann Constr. Co., Inc., Gladbrook, Iowa (B)
- Groz, M. J., 1810 8th Ave., No., Ft. Dodge, Iowa (B)
- Hansen, Arthur V., Co., 2009 Grand Blvd., Cedar Falls, Iowa (B)
- Hansen, Chris, 1615 E. 7th St., Sioux City 19, Iowa (B)
- Haring, Daniel, Co., 122 5th Ave., So., Clinton, Iowa (B)
- Henkel Constr. Co., 525 9th St., S. E., Mason City, Iowa (B)
- Hermans Constr. Co., 1027 N. 3d St., Ft. Dodge, Iowa (B)
- Hersom, C. L., Laurens, Iowa (B)
- Holtze, H. S., Constr. Co., 2121 E. 4th St., Sioux City 19, Iowa (B)
- Jackson Constr. Co., 2805 W. Main St., Emmetsburg, Iowa (B)
- Jacobson, Con. Co., 103 S. 1st, Marshalltown, Iowa (B)
- Johnson, C. Emil, 1208 Reed St., Red Oak, Iowa (B)
- Johnson Engr. & Constr. Co., Box 554, Storm Lake, Iowa (B)
- Jorgensen, O., & Sons, 1014 Roosevelt St., Clinton, Iowa (B)
- Jorstad, John, 2907 Grandview, Sioux City, Iowa (B)
- Kepp, W. A., & Sons Co., P. O. Box 166, Orange City, Iowa (B)
- Klinger, W. A., Co., 201 Benson Bldg., Sioux City 15, Iowa (B)
- Knudson, Wm., & Sons, 608-610 Flynn Bldg., Des Moines 9, Iowa (B)
- Kramme, C. J., 2800 10th Ave., No., Ft. Dodge, Iowa (B)
- Kucharo & Assoc., Inc., 225 Jewett Bldg., Des Moines, Iowa (B)
- Kucharo Constr. Co., 225 Jewett Bldg., Des Moines 9, Iowa (B)
- Larsen, C. C., & Sons Co., 10 N. Main St., Council Bluffs, Iowa (B)
- Lippert Bros., Inc., 827 Monona St., Boone, Iowa (B)
- Lippert Constr. Co., Oelwein, Iowa (B)
- Loomis Bros., 509½ 3d Ave., S. E., Cedar Rapids, Iowa (B)
- Lovejoy Constr. Co., 1118 Mulberry St., Des Moines 9, Iowa (B)
- Mattson, W. A., 2803 West Ave., Burlington, Iowa (B)
- Mayer-Heier Hotel Moore Bldg., Clarion, Iowa (B)
- McCorkle, L. E., Contr. Co., Winterset, Iowa (B)
- McCorkle, Paul, Constr. Co., Sac City, Iowa (B)
- McCreedy, M. D., Constr. Co., Inc., 1205 Seymour Ave., Iowa City, Iowa (B)
- Mildenstein, Max, 1714 East Ave., N. E., Cedar Rapids, Iowa (B)
- Miller, John G., Constr. Co., 222 W. Mullan Ave., Waterloo, Iowa (B)
- Morehead Constr. Co., 217 Dows Bldg., Cedar Rapids, Iowa (B)
- Nelson, Carl A., & Co., Inc., 1815 Des Moines Ave., Burlington, Iowa (B)
- Nemmers Bros., 21 1st Ave., N. E., LeMars, Iowa (B)
- Neumann, Arthur H., & Bros., Inc., 514 Hubbell Bldg., Des Moines 9, Iowa (B)
- Olesen, Jens, & Sons Constr. Co., 321 W. 18th St., Waterloo, Iowa (B)
- Osterling Constr. Co., 422½ W. Main, Cherokee, Iowa (B)
- Paist, Chas. E., 2310 Otley, Perry, Iowa (B)
- Park, Paul, Co., W. 5th & Railroad, Storm Lake, Iowa (B)
- Paulson, O. F., Constr. Co., 401 Iowa Theatre Bldg., Cedar Rapids, Iowa (B)
- Peterson, C. A., & Sons, 108 W. 6th St., Rock Rapids, Iowa (B)
- Priester Constr. Co., 1121 Davenport Bk. Bldg., Davenport, Iowa (B)
- Reimer, C. F., Constr. Co., Inc., P. O. Box 12, Marshalltown, Iowa (B)
- Rinderknecht, R. W., Co., 113 F Ave., N. W., Cedar Rapids, Iowa (B)
- Ringland-Johnson, Inc., 202 Cooper Bldg., Des Moines, Iowa (B)
- Schaefer, Henry R., Co., 1326 W. 3d St., Davenport, Iowa (B)
- Schumacher, Herman, Hull, Iowa (B)
- Smith, A. W., & Son, 512 Ave. G, Ft. Madison, Iowa (B)
- Soller, John, Constr. Co., 717 Harrison St., Davenport, Iowa (B)
- Spencer Constr. Co., 10 W. 5th St., Spencer, Iowa (B)
- Stolz, R. A., Constr. Co., 103 N. Chestnut, New Hampton, Iowa (B)
- Sulzbach, F. P., 230 Cook Dr., Sioux City, Iowa (B)
- Thompson, Jas., & Sons, 222 E. 3d St., Ames, Iowa (B)
- Tunnickliff Constr. Co., 105 Fillmore St., Davenport, Iowa (B)
- Vawter, Fane F., & Co., 207 9th St., Des Moines, Iowa (B)
- Walker, C. Glenn, Co., 515 2d Ave., So., Ft. Dodge, Iowa (B)
- Wayman, W. M., Constr. Co., 320 Redding-ton Ave., Cherokee, Iowa (B)
- Weitz Co., Inc., The, 406 Fleming Bldg., Des Moines 9, Iowa (B)
- Wickes Engr. & Constr. Co., 1441 2d Ave., Des Moines 14, Iowa (B)
- Wildes Constr. Co., 533 Park Rd., Waterloo, Iowa (B)
- Wildman, R. H., Constr. Co., 708 S. Riverside Dr., Iowa City, Iowa (B)
- Willy Constr. Co., 2160 Central Ave., Dubuque, Iowa (B)
- Wood, Earl R., Ainsworth, Iowa (B)
- Wood, Milo, W. 4th St., So., R. R. 4, Newton, Iowa (B)
- Zitterell-Mills Co., 607 Prospect St., Webster City, Iowa (B)
- Zwack, Anton, Inc., 1301 Central Ave., Dubuque, Iowa (B)

15. KANSAS

(a) KANSAS CHAPTER, BUILDERS' DIVISION

President—Chas. R. Bennett, Bennett Constr. Co., 114 Taylor St., Topeka, Kans.

Manager & Executive Secretary—Kenneth R. Lewis, Suite 409, Natl. Reserve Bldg., Topeka, Kans.

Telephone: 3-1814

- Armagost, Walter, Constr. Co., 519 S. Broadway, Suite 10, Wichita, Kans. (B)
- Bass, D. C., & Sons Constr. Co., 314-16 Bass Bldg., P. O. Box 246, Enid, Okla. (B)
- Baumann, Geo. E., Box 495, Nevada, Mo. (B)
- Bennett Constr. Co., 114 Taylor St., Topeka, Kans. (B)
- Blaser, Frank E., Bldg. Co., P. O. Box 112, 430 N. Rock Island, Wichita, Kans. (B)
- Borden, Val, Constr. Co., P. O. Box 883, Salina, Kans. (B)
- Bowers Constr. Co., Inc., 627 College Ave., Topeka, Kans. (B)
- Busboom & Rauh, 109 E. Iron Ave., Salina, Kans. (B)
- Casson Constr. Co., 603 Topeka Blvd., Topeka, Kans. (B)
- Clark, Don, 1338 Mulvane, Topeka, Kans. (B)
- Constant Constr. Co., Inc., 2d & Perry, P. O. Box 126, Lawrence, Kans. (B-Hvy)
- Cowan, C. J., Constr. Co., 1150 Oakley, Topeka, Kans. (B)
- Dalton Constr. Co., 220½ W. 4th St., Joplin, Mo. (B)
- Dondlinger & Sons Constr. Co., 1206 E. Lincoln, Wichita 1, Kans. (B)
- Douglas Constr. Co., 510 E. 15th St., Topeka, Kans. (B-Hvy)
- Eby, Martin K., Constr. Co., Inc., 610 N. Main, Wichita 5, Kans. (B)
- English, N. F., Constr. Co., Inc., 601 E. 2d, Hutchinson, Kans. (B)
- Fessler, Frank, 155½ N. Santa Fe, Salina, Kans. (B)
- Frank, J. S., 424 S. Phillips, Salina, Kans. (B)
- Frankenfeld Constr. Co., 1012½ Main St., Winfield, Kans. (B)
- Gehring, F. P., 214 N. 8th, Atchison, Kans. (B)

KANSAS—Continued

Green, Mont J., & Co., Ulrich Bldg., Manhattan, Kans. (B)
 Hahner & Foreman, 121 N. Waco, Wichita, Kans. (B)
 Harmon, D. A., Constr. Co., P. O. Box 1414, 100 S. Indiana, Oklahoma City 1, Okla. (B)
 Hubbard, Roy, Constr. Co., 117-127 E. 6th, Junction City, Kans. (B)
 Jayhawk Constr. Co., Inc., 812 Adams St., Topeka, Kans. (B)
 Jensen & Ridge Constr. Co., Box 1918, Wichita 1, Kans. (B)
 Johnson Bros. Constr. Co., 407 Natl. Bk. of America, Salina, Kans. (B)
 Lindgren & Son Constr. Co., 153½ N. Santa Fe, Salina, Kans. (B)
 Lundgren, J. A., & Son, 213 Jackson St., Topeka, Kans. (B)
 Mainelli Constr. Co., 4502 S. 36th St., Omaha 7, Nebr. (B)
 Messenger, A., Lbr. & Milwk. Constr. Co., The, 822 E. 4th St., Pittsburg, Kans. (B)
 Milligan, O. D., Constr. Co., Box 706, Manhattan, Kans. (B)
 Mitchell, E. J., Constr. Co., 117 W. Harvey Ave., Wellington, Kans. (B)
 Moreland Constr. Co., 140 Laura, Wichita 7, Kans. (B)
 Neely, John C., Constr. Co., 120 S. Topeka Ave., Wichita, Kans. (B)
 Rinner, Geo., 4th & N. Lane, Shorey, Topeka, Kans. (B)
 Smith Bros. Contrs., 305 Cherokee, Leavenworth, Kans. (B)
 Soderberg, A. W., Constr. & Bldg. Co., 910 E. Indianapolis, Wichita 1, Kans. (B)
 Vollmer, Clarence E., Constr. Co., 840 N. Main St., Wichita, Kans. (B)
 Watson, M. W., 1004 Natl. Bk. of Topeka Bldg., Topeka, Kans. (B-Hvy)
 Wayland, John F., Washington, Kans. (B)
 Wilsam, Geo., 151 Garnett, Wichita, Kans. (B)

(b) KANSAS CONTRACTORS ASSOCIATION

President—M. C. Miller, San-Ore Constr. Co., McPherson, Kans.
Engineer-Secretary—J. W. Ballard, Hotel Jayhawk, Topeka, Kans.
Telephone: 3-2748

Ade Constr. Co., 155½ N. Santa Fe, Salina, Kans. (H)
 Aldridge, R. G., 1610 Nebraska St., Kansas City 2, Kans. (H-Hvy)
 Alsop, John, Wakefield, Kans. (H)
 Anderson Constr. Co., Holton, Kans. (H)
 Asplund Constr. Co., 309 E. Oak St., Enid, Okla. (H-Hvy)
 Atkinson, C. H., Paving Co., Chillicothe, Mo. (H-Hvy)
 Baker, G. W., 725 Wisconsin, Holton, Kans. (H)
 Baker, Roy, Ozawkie, Kans. (H)
 Banta Constr. Co., Harper, Kans. (H)
 Barcus, L. G., & Sons, 1430 State Ave., Kansas City 2, Kans. (H)

Bassett Constr. Co., Inc., Box 162, Wichita, Kans. (H)
 Benbow, Frank, 1303 High St., Wichita, Kans. (H)
 Bennett Constr. Co., 114 Taylor St., Topeka, Kans. (B-H-Hvy)
 Bennett, Geo., Constr. Co., 1520 Central Ave., Kansas City 2, Kans. (H-Hvy)
 Bennett, W. H., Constr. Co., 1310 State St., Kansas City 2, Kans. (H)
 Blacktop Surfacing Co., Emporia, Kans. (H)
 Blair Bros. Constr. Co., Quinter, Kans. (H)
 Blue River Sand & Gravel Co., Irving, Kans. (H)
 Broce Constr. Co., 214 S. 2d, Dodge City, Kans. (H)
 Broce & Smith, Inc., Box 711, Larned, Kans. (H)
 Brommer, O. G., Belleville, Kans. (H)
 Brosnahan, Earl F., 511 Grand Ave. Bk. Bldg., Kansas City 6, Mo. (B-H-Hvy)
 Brown Bros. Constr. Co., P. O. Box 745, Manhattan, Kans. (H)
 Brown, V. U., Constr. Co., Lyons, Kans. (H)
 Burt & Binford, 507-15 W. 24 Ave., Hutchinson, Kans. (H-Hvy)
 C & H Constr. Co., 669 S. 10th St., Salina, Kans. (H)
 Carrothers, H. H., Paola, Kans. (H)
 Carter, W. B., Constr. Co., P. O. Box 2237, Wichita, Kans. (Hvy)
 Cement Asphalt Prods. Co., 410 N. Main St., Winfield, Kans. (H-Hvy)
 Clark Bros. Constr. Co., 614 S. 5th St., Leavenworth, Kans. (H)
 Clarkson Constr. Co., The, 4133 Gardner Ave., Box 4924, Sta. F., Kansas City 1, Mo. (H-RR)
 Coffey, Jas., 932 High Ave., Topeka, Kans. (H)
 Collins Constr. Co., Leavenworth, Kans. (H)
 Concrete Materials & Constr. Co., Box 790, 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Constant Constr. Co., Inc., 2d & Perry, P. O. Box 126, Lawrence, Kans. (B-H)
 Cook & Cone, 337 N. Dellrose St., Wichita 8, Kans. (H)
 Deer Landscape Co., Neodesha, Kans. (H)
 Dobson Bros. Constr. Co., 1st Natl. Bk. Bldg., Lincoln, Nebr. (H-Hvy)
 Douglas Constr. Co., 510 E. 15th St., Topeka, Kans. (B-Hvy)
 Erickson Constr. Co., Assaria, Kans. (H)
 Forster, A. J., 408 S. Pearl St., Paola, Kans. (H)
 Freeto Constr. Co., Inc., The Natl. Bk. Bldg., Pittsburg, Kans. (H-Hvy)
 Frisbie, J. W., Railway Exch. Bldg., Kansas City 6, Mo. (H)
 Geiger, E. W., Inc., 1st & Topeka Blvd., Box 799, Topeka, Kans. (H-Hvy)
 General Engr. Co., 1330 Western, Topeka, Kans. (H-Hvy)
 Globe Constr. Co., 1041 N. Water St., Wichita 5, Kans. (H-Hvy)
 Gray, C. E., Emporia, Kans. (H-Hvy)
 Groshans & Petersen, Marysville, Kans. (H-RR)
 Grundeman Constr. Co., 415 E. 4th St., Holton, Kans. (H-Hvy)

Hall Bros. Constr. Co., Marysville, Kans. (H)
 Hansen, D. G., Logan, Kans. (H-Hvy)
 Harper, L. F., Great Bend, Kans. (H)
 Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Hayes, L. W., Inc., 222 W. 72d St., Kansas City 5, Mo. (H)
 Henery, Harry, Inc., Ottawa, Kans. (H)
 Hites, L. V., Co., 214 Grand Ave. Bk. Bldg., Kansas City 8, Mo. (H)
 Hixson & Lehenbauer, 717 Lincoln, Topeka, Kans. (H-Hvy)
 Hulme, Chas., 816 Main St., Great Bend, Kans. (H)
 Hunter, Ralph H., Constr. Co., Box 622, Hays, Kans. (H)
 Independent Constr. Co., Overland Park, Kans. (H-Hvy)
 Inland Constr. Co., P. O. Box 1993, Wichita, Kans. (H-Hvy-RR)
 Jacobson, L. A., Box 130, Pauls Valley, Okla. (H)
 Kaw Paving Co., Inc., 1st St. & Topeka Ave., Topeka, Kans. (H-Hvy)
 Kiewit, Peter, Sons' Co., Munic. Airport P. O., Wichita 13, Kans. (B-H-Hvy-RR)
 Klaver & Wallace, Box 272, Kingman, Kans. (H)
 Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy-RR)
 Land Constr. Co., 1207 S. 4th St., St. Joseph 26, Mo. (H-Hvy)
 List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
 Lytle-Amis-San Ore, Ellis, Kans. (H-Hvy)
 Marbut, T. F., Columbia Bldg., Emporia, Kans. (H)
 Maxwell Bridge Co., The, P. O. Box 348, Columbus, Kans. (H)
 McConnell Constr. Co., Russell, Kans. (H)
 McGlone, Perry, Constr. Co., 608 Grand Ave. Bk. Bldg., Kansas City 8, Mo. (H)
 Midwest Constr. Co., 701 Iowa, Holton, Kans. (H)
 Midwest Pre-Cote Co., 7600 E. 17th St., Kansas City 3, Mo. (H)
 Mission Equip. & Constr. Co., 6007 W. 61st St., Mission, Kans. (H)
 Myers, Geo. M., Inc., P. O. Box 665, El Dorado, Kans. (H)
 O'Brien, W. F., St. Paul, Kans. (H)
 Penny, M. N., P. O. Box 131, Lawrence, Kans. (H)
 Popejoy, Glenn, Ulysses, Kans. (H)
 Purtzer & Dutton, Norton, Kans. (H)
 Reece Constr. Co., Scandia, Kans. (H-Hvy)
 Reinhardt Bros., Box 151, Russell, Kans. (H)
 Reis, A. F., 702 Natl. Bk. of Topeka Bldg., Topeka, Kans. (H)
 Reno Constr. Co., 5700 W. 79th St., Overland Park, Kans. (H)
 Rexroad, L. W., & Son, Box 954, Salina, Kans. (H)
 Rhoades Constr. Co., Inc., 413½ Main St., Newton, Kans. (H)
 Ritchie Bros. Constr. Co., Box 2178, Wichita 1, Kans. (H)
 Rogers, H. A., & Sons, Lebo, Kans. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

KANSAS—Continued

Rogers, Ira, 1267 Boswell, Topeka, Kans. (H-Hvy)
 Ross Sand & Gravel Co., Concordia, Kans. (H)
 Sandford, N. Ralph, Hoisington, Kans. (H)
 San-Ore Constr. Co., McPherson, Kans. (H)
 Sargent Excavating Co., Inc., 812 Adams St., Topeka, Kans. (Hvy)
 Scherrer, Dan, Constr. Co., 903 N. 3d St., Kansas City 4, Kans. (H)
 Schmidt, Oscar H., Inc., 605 N. Tyler St., Topeka, Kans. (H)
 Schwartz, David, Russell, Kans. (H)
 Schweitzer, Adrian L., Osborne, Kans. (H)
 Shears, J. H., Sons, P. O. Box 227, Hutchinson, Kans. (H)
 Sherwood, A. G., Constr. Co., 829 N. Penn, Independence, Kans. (H)
 Sherwood Constr. Co., 619 N. Santa Fe St., Wichita 5, Kans. (Hvy)
 Small, M. M., 1619 W. 2d, Topeka, Kans. (H)
 Smith, Wm. A., Contr. Co., Inc., 1401 Fairfax Trafficway, Kansas City 15, Kans. (H)
 Stamey Constr. Co., 10 W. 21st St., Hutchinson, Kans. (B-Hvy-RR)
 Stannard Constr. Co., 519 S. Broadway, Suite 6, Wichita 2, Kans. (H-Hvy)
 Storms & Frew Constr. Co., 6601 E. 37th St., Kansas City 3, Mo. (H)
 Swenson Constr. Co., 3305 Terrace St., Kansas City 2, Mo. (B-H-Hvy)
 Taylor, H. J., Constr. Co., United Life Bldg., Salina, Kans. (H-Hvy)
 Tobin, J. A., Constr. Co., 3700 Rainbow Blvd., Kansas City 3, Kans. (H-Hvy)
 Vance Bros., 50th & Brighton, Kansas City 3, Mo. (H)
 Walters Sand Co., Manhattan, Kans. (H)
 Watson, M. W., 1004 Natl. Bk. of Topeka Bldg., Topeka, Kans. (B-H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Young Constr. Co., 4209 St. Joseph Ave., St. Joseph, Mo. (H)
 Youngman, H. D., P. O. Box 166, Baxter Springs, Kans. (H-Hvy-RR)

16. KENTUCKY

(a) KENTUCKY HIGHWAY DIVISION

President—Harry O. Wyse, 881½ E. High St., Lexington, Ky.
Vice President—N. B. Edwards, Corum & Edwards, 9 N. Main St., Madisonville, Ky.
Executive Secretary—W. O. Snyder, New Capital Hotel, Frankfort, Ky.
Telephone: 448

Adams, H. C., 968 Delaware Ave., Lexington, Ky. (H)
 Ambrosius Inds., Inc., Box 8, Highland Park Sta., Louisville 9, Ky. (H)
 Boone, S. J., 1520 Griffith Ave., Owensboro, Ky. (H)
 Breslin Constr. Co., Inc., 1801 S. Brook St., Louisville 8, Ky. (H)

Cheek, Geo. H., Constr. Co., Inc., 300 McClure Bldg., Frankfort, Ky. (H)
 Codell Constr. Co., Inc., P. O. Box 17, Winchester, Ky. (H-Hvy-RR)
 Corum & Edwards, P. O. Box 229, Madisonville, Ky. (H-Hvy)
 Dawson, R. R., Bloomfield, Ky. (H-RR)
 Fuller-Davies Co., The, 1709 Union Trust Bldg., Cincinnati, Ohio (H)
 Gorman Constr. Co., P. O. Drawer 151, Flemingsburg, Ky. (H)
 Hinkle Contr. Co., Box 147, Paris, Ky. (B-H)
 Kentucky-Virginia Stone Co., P. O. Drawer 137, Middlesboro, Ky. (H)
 Lehman-Roberts Co., 615 Citizens Bk. Bldg., Lexington 3, Ky. (H)
 Lovell & Hart Constr. Co., Box 1528, Lexington, Ky. (H)
 Lyons & Breeden, Box 209, Madisonville, Ky. (H)
 Middle States Bituminous Corp., Box 1071, Ashland, Ky. (H)
 Snider, W. C., 411 N. Maple Ave., Danville, Ky. (H)
 Southern Quarries & Contr. Div. of the New York Coal Sales Co., 150 E. Broad St., Columbus 15, Ohio (H)
 Strunk Constr. Co., Box 46, Somerset, Ky. (H)
 Talbott-Myers Constr. Corp., P. O. Box 231, Winchester, Ky. (H-Hvy-RR)
 Tye & Wells, Eminence, Ky. (H)
 Waters Constr. Co., P. O. Box 152, Elizabethtown, Ky. (H)
 Willard, J. W., Box 663, Bowling Green, Ky. (H)
 Wood & Barton Co., 410 Ann St., Frankfort, Ky. (H)
 Wyse, Harry O., 881½ E. High St., Lexington, Ky. (H-Hvy)

(b) LOUISVILLE CHAPTER

President—John F. Nicoulin, Hays & Nicoulin, 939 Franklin St., Louisville 6, Ky.
Manager—D. R. Lyman, 120 E. Brandeis Ave., Louisville 8, Ky.
Telephone: Calhoun 2521

Bickel, Henry, Co., Inc., 1020 E. Chestnut St., Louisville 4, Ky. (H-Hvy)
 Bornstein, Ale, Inc., 1219 Logan St., Louisville 4, Ky. (B)
 Coupe, A. L., Constr. Co., 429 E. Woodbine Ave., Louisville 8, Ky. (B)
 Eady, Geo. M., Co., 340 Byrne St., Louisville 8, Ky. (H-Hvy)
 Hays & Nicoulin, 939 Franklin St., Louisville 6, Ky. (B)
 Highland Co., 644 Baxter Ave., Louisville 4, Ky. (H)
 Jennings, J. D., Co., 235 E. Gaulbert St., Louisville 8, Ky. (B)
 Lichtfeld, Fred J., & Son, 989 Logan St., Louisville 4, Ky. (B)
 Louisville Asphalt Co., 240 E. Lee St., Louisville 8, Ky. (H)
 Mann Constr. Co., 422 E. Market St., New Albany, Ind. (B)
 Mueller, C. W., 619 Baxter Ave., Louisville 4, Ky. (B)

Owens, F. W., Co., 119 N. 5th St., Louisville 2, Ky. (B)
 Platoff Constr. Co., 501 E. Woodbine Ave., Louisville 8, Ky. (B)
 Rommel, Geo. H., Co., 958 Logan St., Louisville 4, Ky. (B)
 Schickli, J. U., & Bros., 13th & Oak Sts., Louisville 10, Ky. (B-H-Hvy)
 Schneider, Al J., Co., 3720 7th St. Rd., Shively, Ky. (B)
 Skilton Engr. & Constr. Corp., 202 E. Bloom Ave., Louisville 8, Ky. (B)
 Steilberg, H. J., & Son, Box 13, Shively, Ky. (B)
 Struck Constr. Co., 147 N. Clay St., Louisville 2, Ky. (B)
 Sullivan & Cozart, 822 W. Kentucky St., Louisville 3, Ky. (B)
 Whittenberg Constr. Co., 2214 S. Floyd St., Louisville 8, Ky. (B)

Local Member

Ruby Constr. Co., Madisonville, Ky. (B-H-Hvy)

17. LOUISIANA

(a) NEW ORLEANS CHAPTER

President—Henry Boh, Boh Bros. Constr. Co., 2400 Cypress St., New Orleans, La.
Managing Director—Sidney H. Walker, 434 Audubon Bldg., 931 Canal St., New Orleans 16, La.
Telephone: Tulane 8401

A & O Bldrs., 3207½ Metairie Rd., New Orleans, La. (B)
 Andry & Voss, 503 Washington Ave., New Orleans, La. (B)
 B & Q Constr. Co., 511 N. Villere St., New Orleans 16, La. (B)
 Bartley & Binnings, 433 Gravier St., New Orleans, La. (B)
 Bernard & Byrd, 1539 Pleasure St., New Orleans 22, La. (B-Hvy)
 Betpouey, Clement, Jr. & Co., 1432 Canal Bldg., New Orleans, La. (B-Hvy)
 Boh Bros. Constr. Co., 2400 Cypress St., New Orleans, La. (B-H-Hvy)
 Bott, C. N., P. O. Box 10127, Jefferson Br., New Orleans 21, La. (B)
 Brice Bldg. Co., S. Johnson & Cypress, P. O. Box 356, New Orleans, La. (B)
 Butler, J. Samuel, 3809 Carondelet St., New Orleans 15, La. (B)
 Byrd & Bruns Bridge Co., Whitney Bldg., New Orleans 12, La. (Hvy)
 Corr, John L., Jr., 3718 Milan St., New Orleans 15, La. (B)
 Farnsworth, R. P., & Co., Inc., 1515 S. Salcedo St., P. O. Box 850, New Orleans 2, La. (B-Hvy)
 Favret, Lionel F., 937 Gravier St., New Orleans 12, La. (B)
 Favrot, Gervais F., Co., 327 Balter Bldg., New Orleans 12, La. (B)
 Globe Constr. Co., Inc., 8137 Oleander St., New Orleans 18, La. (B)
 Glover, Geo. J., Co., Whitney Bldg., New Orleans 12, La. (B)

A.G.C. DIRECTORY

LOUISIANA—Continued

Goldberg, A. N., Inc., 623 Maison Blanche Bldg., New Orleans 16, La. (B-H-Hvy)
 Haase Constr. Co., 822 Perdido St., New Orleans 12, La. (B)
 Hardy-Stevens Co., 226 Carondelet St., New Orleans, La. (B)
 Jensen, A., 2915 Robert St., New Orleans 15, La. (B)
 Keller Constr. Co., 7930 Palm St., P. O. Box 439, New Orleans, La. (B-H-Hvy)
 Kelly-Generes Constr. Co., 134 Carondelet St., New Orleans 12, La. (B-Hvy)
 Larsen, Chris, Co., Maritime Bldg., New Orleans 12, La. (B)
 Lee, J. Gordon, 226 Carondelet St., New Orleans 12, La. (B)
 McKee, Robt. E., P. O. Box 149, New Orleans 3, La. (B)
 O'Connor Oakes Co., 542 2d St., Gretna, La. (B)
 Perrilliat-Rickey Constr. Co., Inc., 1530 S. Rendon St., New Orleans 15, La. (B)
 Progressive Constr. Co., Inc., 201 Carrollton St., Metairie, New Orleans 20, La. (B)
 Reilly, Michael H., 123 S. St. Patrick, New Orleans 19, La. (B)
 Riess, John, 226 Carondelet St., New Orleans 12, La. (B-Hvy)
 Sharp, Otis W., & Son, Inc., 1838 Robert St., New Orleans 15, La. (B)
 Spencer, C. B., 2350 Rousseau, New Orleans 13, La. (B)

(b) SHREVEPORT CHAPTER

President—L. C. Allen, Allen Constr. Co., P. O. Box 3044, Queensboro Sta., Shreveport, La.
Executive Secretary—C. H. Rollins, P. O. Box 1271, Shreveport, La.
Telephone: 2-8921

Allen Constr. Co., 3855 Dilg League Dr., P. O. Box 3044, Queensboro Sta., Shreveport, La. (B)
 Bellamy, J. H., 2432 Midway, Shreveport, La. (B)
 Brown, J. M., Constr. Co., Inc., 317 Highland Ave., Shreveport, La. (B)
 Butler, Gerald C., 3834 Florence St., Shreveport, La. (B)
 Collins, Howard, P. O. Box 705, Cedar Grove Sta., Shreveport, La. (B)
 Cottage Bldrs., Inc., 311 Highland Ave., Shreveport 50, La. (B)
 Furr, D. O., Constr. Co., 718 Edwards St., Shreveport, La. (B)
 General Constr. Co., 1417 Dalzell St., P. O. Box 1622, Shreveport, La. (B)
 Graham, P. A., 445 Wilder Pl., Shreveport, La. (B)
 Gray, W. A., Constr. Co., P. O. Box 626, 861 Grimmert Dr., Shreveport, La. (B)
 Jones, J. A., Constr. Co., Inc., 354 Aero Dr., P. O. Box 1818, Shreveport, La. (B)
 Levasseur, A. J., Constr. Co., P. O. Box 3397, Queensboro Sta., Shreveport, La. (B)
 McClanahan, Fred C., & Son, 305 Elmwood St., Shreveport, La. (B)
 McMichael Constr. Co., 842 Hope St., P. O. Box 508, Shreveport, La. (B)

Neff, Robt. A., 802 Rutherford St., Shreveport, La. (B)
 Sandel, C. C., 5808 St. Vincent Ave., Shreveport, La. (B)
 Southern Bldrs., Inc., 201 Hunter Bldg., P. O. Box 1815, Shreveport, La. (B)
 Treadwell, C. H., 1523 Centenary Blvd., Shreveport, La. (B)
 Welch Constr. Co., 503 1st Natl. Bk. Bldg., Shreveport, La. (B)
 Werner Co., The, P. O. Box 908, Shreveport, La. (B)
 Whitaker, Guy C., 200 City Bk. Bldg., Shreveport, La. (B)

(c) LAKE CHARLES CHAPTER

President—A. M. Mutersbaugh, 602 Ann St., Lake Charles, La.
Secretary—Hudson East, Knapp & East, 2508 S. Ryan St., Lake Charles, La.
Treasurer—R. E. Managan, c/o Port City Constr. Co., Inc., 2007 S. Hodges St., Lake Charles, La.

House, Henry, 1617 Ford St., Lake Charles, La. (B)
 Knapp & East, 2508 S. Ryan St., Lake Charles, La. (B)
 Miller, T., & Sons, 10 Chavanne Bldg., Lake Charles, La. (B-Hvy)
 Mutersbaugh, A. M., 602 Ann St., Lake Charles, La. (B-Hvy)
 Port City Constr. Co., Inc., 2007 S. Hodges St., Lake Charles, La. (B)
 Western Constr. Co., Inc., 1830 South St., Lake Charles, La. (B)

(d) BATON ROUGE CHAPTER

President—L. W. Eaton, Jr., L. W. Eaton Co., Inc., 209 Triad Bldg., P. O. Box 387, Baton Rouge 1, La.
Executive Secretary—John L. Daniel, 402 Triad Bldg., Baton Rouge, La.
Telephone: 3-6728

Blanchard, Carver, 2876 Kalurah St., Baton Rouge, La. (B)
 Broussard, A. B., 2937 Greenwood Dr., P. O. Box 2047, Baton Rouge, La. (B)
 Buquet & LeBlanc, 544 Reymond Bldg., Baton Rouge, La. (B)
 C.B. Constr. Co., P. O. Box 1967, 1045 Choctaw Rd., Baton Rouge, La. (B)
 Caldwell & McCann, 310 Triad Bldg., Baton Rouge 6, La. (B)
 Carter, Chas., 1742 N. 21st St., Baton Rouge, La. (B)
 Crawford Corp., Constr. Div., P. O. Box 989, Baton Rouge, La. (B)
 Eaton, L. W., Co., Inc., 209 Triad Bldg., P. O. Box 387, Baton Rouge 1, La. (B)
 Farnsworth, R. P., & Co., Inc., 440 N. Foster Dr., P. O. Box 2029, Baton Rouge, La. (B)
 Hearin-Smith, Inc., 6300 Rawlins, Baton Rouge, La. (B)
 Keller Constr. Co., P. O. Box 25, Baton Rouge, La. (B)
 King, J. M., 3538 Plank Rd., Baton Rouge 5, La. (B)
 Lozano Mfg. & Constr. Co., 174 South Blvd., Box 967, Baton Rouge, La. (B)

Murphy, J. C., 1165 Choctaw Rd., Box 2308, Baton Rouge, La. (B)
 Perrilliat-Rickey Constr. Co., Inc., P. O. Box 1186, Baton Rouge, La. (B)
 Pioneer Contract & Supply Co., 2510 Government St., P. O. Box 200, Baton Rouge, La. (B)
 Spedale, L. A., 711 Richland Ave., Baton Rouge, La. (B)
 Stephens, A. A., 2320 Iroquois St., Baton Rouge, La. (B)
 Thibodeaux, Robt., 2834 Greenwood Dr., P. O. Box 887, Baton Rouge 6, La. (B)

(e) LOUISIANA HIGHWAY & HEAVY CONSTRUCTION BRANCH

President—A. N. Goldberg, A. N. Goldberg, Inc., 623 Maison Blanche Bldg., New Orleans 16, La.
Manager—Robert N. Kinnaird, 328 Hotel Louisiana Bldg., Baton Rouge 6, La.

Telephone: 4-4073

Aldrich, W. R., & Co., P. O. Box 1751, Baton Rouge, La. (B-H-Hvy)
 Allen, H. L., & Sons, Elton, La. (H-Hvy)
 Barber Bros. Co., 2604 Dougherty Dr., P. O. Box 629, Baton Rouge, La. (H-Hvy)
 Campbell Constr. Co., Inc., Box 880, Shreveport, La. (H-Hvy-RR)
 Carruth Constr. Co., 3170 Florida St., Baton Rouge, La. (H-Hvy)
 Central Constr. Co., Inc., P. O. Box 1011, Monroe, La. (H-Hvy)
 Dickerson & Bowen, P. O. Box 177, Brookhaven, Miss. (H-Hvy)
 Farnsworth, R. P., & Co., Inc., 1515 S. Salcedo St., P. O. Box 850, New Orleans, La. (B-H-Hvy)
 Flenniken Constr. Co., P. O. Box 634, Shreveport, La. (H-Hvy)
 General Constr. Co., Inc., 1417 Dalzell St., P. O. Box 1622, Shreveport, La. (B-Hvy)
 Goldberg, A. N., Inc., 623 Maison Blanche Bldg., New Orleans 16, La. (B-H-Hvy)
 Green, M. L., Woodville, Miss. (H)
 H. & H. Contr. Co., P. O. Box 505, Bossier City, La. (H-Hvy)
 Henry & Hall, Dubach, La. (H-Hvy)
 Horton-Pollard, 2011 E. Texas St., Bossier City, La. (H)
 James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)
 Jenkins, J. H., 5163 Choctaw Dr., Baton Rouge, La. (H-Hvy-RR)
 Keller Constr. Corp., 7900 Palm St., New Orleans, La. (H-Hvy)
 Kleinpeter, T. W., & Co., 146 S. Leo St., Baton Rouge, La. (H-Hvy)
 LeBlanc Bros., 702 Louisiana Natl. Bk. Bldg., Baton Rouge, La. (H-Hvy)
 Lilly, Roy M., 302 Hotel Louisiana Bldg., Baton Rouge, La. (H-Hvy)
 Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
 McDermott, J. Ray, & Co., Inc., P. O. Box 38, Harvey, La. (Hvy)
 Miller, T., & Sons, 10 Chavanne Bldg., Lake Charles, La. (B-Hvy)
 Netherton Co., P. O. Box 3368, Shreveport, La. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

LOUISIANA—Continued

Patterson, W. H., & Co., P. O. Box 2229, Baton Rouge, La. (H-Hvy)
 Pierson Constr. Co., 1007 Louisiana Natl. Bk. Bldg., Baton Rouge, La. (H)
 Pohlman & Wilbanks, 310 Louisville Ave., Monroe, La. (B-Hvy)
 Reynolds & Williams, P. O. Box 286, Shreveport, La. (H)
 Roland Constr. Co., P. O. Box 850, Alexandria, La. (B-H-Hvy)
 Tomlinson, T. R., Doyline, La. (H)
 Ward, O. J., Inc., 753½ Gladstone, Shreveport, La. (H-Hvy)
 Wells Contr. Co., P. O. Box 189, Natchitoches, La. (H-Hvy)

(f) CENTRAL LOUISIANA CHAPTER

President—R. J. Jones, R. J. Jones & Sons, 130 Wheelock Ave., P. O. Box 991, Alexandria, La.
Executive Secretary—S. P. Eggers, Jr., 2134½ Lee St., P. O. Box 4074, Alexandria, La.
Telephone: 6664

Alexandria Insulation Co., 34 Bolton Ave., Alexandria, La. (B)
 Angelle, Robt., Breaux Bridge, La. (B-H-Hvy)
 Brezner, Barnet, P. O. Box 654, Alexandria, La. (B)
 Bufkin & Rockhold, 76 McArthur Dr., P. O. Box 367, Alexandria, La. (B)
 Chaudoir, A. B., & Sons, 2721 Lee St., P. O. Box 1689, Alexandria, La. (B)
 City Lumber Co., Inc., 602 Monroe St., P. O. Box 89, Alexandria, La. (B)
 Eiland, Jas. A., Jr., Box 487, Bunkie, La. (B)
 Gossen Constr. Co., P. O. Box 818, Lafayette, La. (B)
 Gravier & Harper, P. O. Box 1391, Alexandria, La. (B)
 Gremillion, A. A., & Co., P. O. Box 1312, Alexandria, La. (B)
 Gremillion Bros., 1030 Washington St., Alexandria, La. (B)
 Jones, R. J., & Sons, 130 Wheelock Ave., P. O. Box 991, Alexandria, La. (B-Hvy)
 Juneau, L. P., Rt. #21 Ransville, Alexandria, La. (B)
 Kaplan Constr. Co., 211 Albert St., P. O. Box SLI, Sta. I, Lafayette, La. (B)
 Kitchingham, J. D., & Son, Columbia, La. (B)
 Lamkin Bros. Constr. Co., 2703 Lee St., Alexandria, La. (B-H)
 Lemoine, S. J., & Co., P. O. Box 481, Bunkie, La. (B)
 Miller, T., & Sons, 10 Chavanne Bldg., Lake Charles, La. (B-Hvy)
 Mouton, J. B., & Sons, 1225 St. John St., P. O. Box 862, Lafayette, La. (B)
 Quick, W. J., P. O. Box 349, New Iberia, La. (B-H-Hvy)
 Rabalais, E. E., & Son, P. O. Box 59, Bunkie, La. (B)
 Ratcliff, J. E., 1418 3d St., Box 1943, Alexandria, La. (B)
 Rickey, Horace B., Inc., Box 218, Lafayette, La. (B)

Romero & Theall, Youngsville, La. (B)
 Tudor Constr. Co., 1284 Murray St., P. O. Box 1232, Alexandria, La. (B)

(g) NORTHEAST LOUISIANA CONTRACTORS' ASSOCIATION, INC.

President—A. B. McBride, McBride & Son, Inc., 120 E. Hickory, P. O. Box 46, Bastrop, La.
Secretary-Treasurer—G. O. Phillips, Ford, Bacon & Davis Constr. Corp., 805 S. Grand St., P. O. Box 1762, Monroe, La.

Adams, C. R., Winnsboro, La. (B)
 Cruse, R. G., Lumber Co., Inc., Sicily Island, La. (B-H)
 Eiland, Edw. H., Box 790, Tallulah, La. (B)
 Ford, Bacon & Davis Constr. Corp., 805 S. Grand St., Monroe, La. (B-Hvy)
 Garland Constr. Co., Ltd., P. O. Box 488, Rayville, La. (B)
 Gilbert Bros., 3040 DeSiard St., P. O. Box 1156, Monroe, La. (B)
 Harper, J. A., Crowville, La. (B)
 Haynes, W. G., 615 Cypress St., West Monroe, La. (B)
 Heard, Jesse F., & Son, Box 3566, West Monroe, La. (B)
 Humble & Humble, Cole Ave., Monroe, La. (B)
 Masling, Frank, & Son, 316 Catalpa St., Monroe, La. (B)
 McBride & Son, Inc., 120 E. Hickory, P. O. Box 46, Bastrop, La. (B)
 Salley, W. C., 511 Ouachita Bk. Bldg., P. O. Box 24, Monroe, La. (B-Hvy)
 Spier, L. C., 224 E. Madison St., Bastrop, La. (B)

Local Member

James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)

18. MAINE

Local Member

Stewart and Williams, Inc., 185 Water St., Augusta, Maine (B-H)

19. MARYLAND

(a) BALTIMORE BUILDERS CHAPTER

President—John K. Ruff, John K. Ruff Co., 100 W. 22d St., Baltimore 18, Md.
Manager—Henry D. Romer, 104 W. Madison St., Suite 5A, Baltimore 1, Md.
Telephone: Mulberry 4285

Allied Contrs., 204 E. Preston St., Baltimore 2, Md. (B-RR)
 Armiger Constr. Corp., 2127 Maryland Ave., Baltimore 18, Md. (B)
 Baltimore Contrs., 711 S. Central Ave., Baltimore 2, Md. (B-RR)
 Bickerton, W. E., Constr. Co., Inc., 101 W. 22d St., Baltimore 18, Md. (B)

Brooklyn Engr. Corp., 1100 E. 25th St., Baltimore 18, Md. (B-Hvy)
 Cogswell Constr. Co., The, 513 Park Ave., Baltimore 1, Md. (B)
 Consolidated Engr. Co., Inc., 20 E. Franklin St., Baltimore 2, Md. (B)
 Costanza Constr. Co., The, 304 Vickers Bldg., 225 E. Redwood St., Baltimore 2, Md. (B)
 Davis Constr. Co., The, 320 W. 24th St., Baltimore 11, Md. (B)
 Eyring, E., & Sons Co., 808 S. Conkling St., Baltimore 24, Md. (B)
 Frantz Constr. Co., The, 10 W. Chase St., Baltimore 1, Md. (B)
 Hampshire Corp., The, 330 W. 24th St., Baltimore 1, Md. (B)
 Koppers Co., Inc., Metal Prods. Div., 200 Scott St., P. O. Box 298, Baltimore 3, Md. (B-Hvy)
 Kramer Constr. Co., 11 E. Lexington St., Baltimore 2, Md. (B)
 Lawrence Constr. Co., Inc., 2503 St. Paul St., Baltimore 18, Md. (B)
 Leimbach Constr. Corp., Inc., 3906 Hickory Ave., Baltimore 11, Md. (B)
 Lyons, Wm. T., Co., Inc., The, 901 Tower Bldg., Baltimore 2, Md. (B-Hvy)
 Morrow Bros., Inc., 2315 N. Charles St., Baltimore 18, Md. (B)
 Piracci Constr. Co., Inc., 2552 Woodbrook Ave., Baltimore 17, Md. (B)
 Redding & Co., Inc., 26 E. 25th St., Baltimore 18, Md. (B)
 Ruff, John K., Co., 100 W. 22d St., Baltimore 18, Md. (B)
 Smith, DeCorse & Christhilf, 5106 York Rd., Baltimore 12, Md. (B)
 Steiner Constr. Co., 2122 Maryland Ave., Baltimore 18, Md. (B)
 Stewart, James, & Co., Inc., P. O. Box 6765, Sparrows Point, Md. (B)
 Turner Construction Co., P. O. Box 7457, Baltimore 27, Md. (B-Hvy)
 Vizzini, Philip, 504 Stamford Rd., Baltimore 29, Md. (B)
 Wiesand, Wm. J., 4111 Wilke Ave., Baltimore 6, Md. (B)
 Williams, J. H., & Co., 1122 Cathedral St., Baltimore, Md. (B)
 Young & Adams, Inc., 2 W. 22d St., Baltimore 18, Md. (B)

(b) ASSOCIATED GENERAL CONTRACTORS OF MARYLAND

President—Earl C. Robertson, The Cumberland Contr. Co., P. O. Box 507, Cumberland, Md.
Secretary—J. Russell Schultz, 612 Highland Ave., Towson, Baltimore 4, Md.

Asphalt Service Co., 4615 White Ave., Baltimore, Md. (H)
 B & W Constr. Co., Inc., 101 Hamilton Bk. Bldg., Baltimore 14, Md. (H)
 Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., Baltimore 17, Md. (H)
 Bester-Long, Inc., Hagerstown, Md. (H-Hvy)
 Brotemarkle, S. T., Constr. Co., P. O. Box 393, Cumberland, Md. (H-Hvy-RR)
 Campbell, Harry T., Sons' Corp., Towson 4, Md. (H-Hvy-RR)

A.G.C. DIRECTORY

MARYLAND—Continued

Cumberland Contr. Co., The, P. O. Box 507, Cumberland, Md. (H-Hvy-RR)
 Dutcher Constr. Corp., Queenstown, Md. (H-Hvy-RR)
 Eastern Highways Corp., P. O. Box 2738, Brooklyn 25, Md. (H)
 Empire Constr. Co., The, 31 S. Calvert St., Baltimore 2, Md. (H-Hvy-RR)
 Ensey, John H., 1611-19 Ridgely St., Baltimore 30, Md. (H)
 Flanigan, P., & Sons, Inc., 2405 Loch Raven Rd., Baltimore 18, Md. (H)
 Gibbons, Jas. Co., The, Sutton Ave., Relay 27, Md. (H-Hvy)
 Grove, M. J., Lime Co., Lime Kiln, Md. (H-Hvy)
 Hazelwood, Geo. F., Co., Inc., The, 36 Howard St., Cumberland, Md. (B-H-Hvy)
 Intercounty Constr. Corp., 4720 Baltimore Ave., Hyattsville, Md. (Hvy)
 Langenfelder, C. J., & Son, Inc., 8427 Pulaski Hwy., Baltimore, Md. (H-Hvy-RR)
 Mahoney Bros., 24 Knickerbocker Bldg., Baltimore 2, Md. (H)
 Mitchell, E. Stewart, Inc., 3301 Ridgewood Ave., Baltimore 15, Md. (H)
 National Paving & Contr. Co., Menlo Dr. & W.M.R.R., Baltimore 15, Md. (H)
 Potts & Callahan Constr. Co., 500 W. 29th St., Baltimore 11, Md. (H-Hvy)
 Russell, T. Edgie, Co., Hamilton Ave., Frederick, Md. (H)
 Suburban Engr. & Constr. Co., P. O. Box 187, Branchville, Md. (H-Hvy-RR)
 Thomas, Bennett & Hunter, Inc., 70 John St., Westminster, Md. (H)
 Williams Constr. Co., P. O. Box 145, Baltimore 20, Md. (H-Hvy-RR)

20. MASSACHUSETTS

(a) NEW ENGLAND MARINE CONTRACTORS CHAPTER

President—Walter G. Cheever, Blakeslee Rollins Corp., 6 Beacon St., Boston 8, Mass.
Secretary—Roy B. Rendle, Roy B. Rendle & Co., Inc., 364 Border St., East Boston 28, Mass.
Telephone: East Boston 7-0490
 Bay State Dredg. & Contr. Co., 62 Condor St., East Boston 28, Mass. (Hvy)
 Beattie Corp., The, 209 Bedford St., Fall River, Mass. (B-Hvy)
 Blakeslee Rollins Corp., 6 Beacon St., Boston 8, Mass. (Hvy)
 Buck-MacDonald Co., 88 Broad St., Boston 10, Mass. (Hvy)
 Crandall Engr. Co., 261 Franklin St., Boston 10, Mass. (Hvy-RR)
 Ellis, Wm. H., & Son Co., 479 Meridian St., East Boston 28, Mass. (Hvy)
 M. & R. Constr. Co., 139 Coleridge St., East Boston, Mass. (Hvy)
 McKie Lighter Co., 470 Atlantic Ave., Boston 10, Mass. (Hvy)

Merritt-Chapman & Scott Corp., New London, Conn. (Hvy)
 Mohr, Henry, 31 St. James Ave., Boston 16, Mass. (Hvy)
 Rendle, Jas. B., Co., 1 Salem St., Malden 48, Mass. (Hvy)
 Rendle, Roy B. & Co., Inc., 364 Border St., East Boston 28, Mass. (Hvy)
 Seaboard Constr. Co., 201 Marginal St., Chelsea 50, Mass. (Hvy)
 Stuart, T., & Son Co., 70 Phillips St., Watertown 72, Mass. (Hvy-RR)

(b) ASSOCIATED GENERAL CONTRACTORS OF MASSACHUSETTS

President—Moses Slotnik, J. Slotnik Co., 38 Newbury St., Boston 16, Mass.
Executive Secretary—Allan E. Gifford, 18 Tremont St., Boston 8, Mass.
Telephone: Richmond 2-0400

Aberthaw Co., 80 Federal St., Boston 10, Mass. (B)
 Bailey, Wm. M., Co., 209 Washington St., Boston 8, Mass. (B)
 Barker, Walter H., Inc., 23 Main St., Taunton 12, Mass. (B-Hvy)
 Beacon Constr. Co., 102 Hano St., Allston 34, Mass. (B)
 Bennett, Jos. E., Co., Inc., 105 Newbury St., Boston 16, Mass. (B)
 Bennett-Stewart Co., Inc., 105 Newbury St., Boston 16, Mass. (B)
 Bond Bros., Inc., 77 Ferry St., Everett 49, Mass. (B)
 Bossi Constr., Inc., 43 Leon St., Boston 15, Mass. (B)
 Clark, Richard F., Co., 67 Rogers St., Cambridge 42, Mass. (B)
 Construction Units, Inc., 294 Washington St., Boston 8, Mass. (B-Hvy)
 Conti & Donahue, 239 Commercial St., Lynn, Mass. (B)
 Cummings, Matthew, Co., Rms. 1112-1115 Merchants Bldg., 77 Summer St., Boston 10, Mass. (B)
 Dwan Constr. Co., 29 Bay St., Dorchester 25, Mass. (B-Hvy)
 Eisenberg-Marden Corp., 755 Boylston St., Boston 16, Mass. (B)
 Farina Bros., 61 Bridge St., Newton 58, Mass. (B-Hvy)
 Griffin, John F., Co., 233 Main St., Cambridge 42, Mass. (B)
 Harty Constr. Co., 25 Huntington Ave., Boston 16, Mass. (B)
 Hawkins, H. H., & Sons Co., 236 Washington St., Newton 58, Mass. (B)
 Hew Constr. Co., 684 Washington St., Boston 11, Mass. (B)
 Horn Bros., Inc., 23 Miner St., Boston 15, Mass. (B)
 Hyndman, Earle L., 20 Beacon St., Boston 8, Mass. (B)
 Jacobson, Alfred L., Inc., 1130 Main St., Malden 48, Mass. (B)
 Jacobucci, R. R., Inc., 28 Dayton St., Box 364, West Quincy 69, Mass. (B)
 Loranger, Theo., & Sons, 404 Nash Rd., New Bedford, Mass. (B-Hvy)
 Macomber, Geo. B. H., Co., Inc., 19 Milk St., Boston 9, Mass. (B)
 Maguire, Jos. T., Co., Inc., 140 Glenwood St., Lowell, Mass. (B-Hvy)
 Marson Constr. Co., Inc., 38 Kent St., Somerville 43, Mass. (B)
 Martin, L., & Son, 17 Nassau St., Boston 11, Mass. (B)
 Mozzicato, Jas. S., 168 Mystic Ave., Medford 55, Mass. (B)
 Mulcare, Thos., Corp., 66 Western Ave., Boston 34, Mass. (B-Hvy)
 Olson & Appleby, 222 Union St., New Bedford, Mass. (B)
 Pafford, Jas. M., Inc., 153 Main St., Falmouth, Mass. (B)
 Page Constr. Co., 20 Pemberton Sq., Boston, Mass. (B)
 Parkman Constr. Co., Inc., 739 Boylston St., Boston 16, Mass. (B)
 Platt Contr. Co., Inc., 99 1st St., East Cambridge 41, Mass. (B-Hvy)
 Poley-Abrams Corp., 2 Elm Pl., Brookline Village 46, Mass. (B)
 Porter, Wm. H., Co., 84 Arsenal St., Watertown 72, Mass. (B)
 Potter-Horn, Inc., 1129 Statler Bldg., Boston 16, Mass. (B)
 Rappoli, Edmund J., Co., Inc., 515 Massachusetts Ave., Cambridge 39, Mass. (B)
 Ritchie, Walter L., 1 Salem St., Malden 48, Mass. (B)
 Runels, R. E., Constr. Co., 515 Chalifoux Bldg., 24 Merrimack St., Lowell, Mass. (B)
 Sawyer Constr. Co., 31 St. James Ave., Boston 16, Mass. (B)
 Slotnick, M., Corp., 333 Washington St., Boston 8, Mass. (B)
 Slotnik, J., Co., 38 Newbury St., Boston 16, Mass. (B)
 Smith, Jas. S., Co., Inc., 263 Washington St., Newton 58, Mass. (B)
 Sullivan-Foster, Inc., 43 William St., New Bedford, Mass. (B-Hvy)
 Thompson-Starrett Co., Inc., 201 Devonshire St., Boston 10, Mass. (B)
 Tocci Bros. Constr. Co., 38 Colonial Ave., Newtonville 60, Mass. (B)
 Tredennick-Billings Co., The, 10 High St., Boston 10, Mass. (B-Hvy)
 Turner Construction Co., 38 Newbury St., Boston 16, Mass. (B)
 Vappi & Co., Inc., 240 Sidney St., Cambridge 39, Mass. (B)
 Vara Constr., Inc., 718 Huntington Ave., Boston 15, Mass. (B)
 Volpe Constr. Co., 54 Eastern Ave., Malden 48, Mass. (B)
 Volpe, S., & Co., Inc., 150 Congress St., Boston 10, Mass. (B)
 White Constr. Co., 18 Tremont St., Boston 8, Mass. (B)
 White, Richard, Sons Co., Inc., 70 Crescent St., West Newton 65, Mass. (B-Hvy)
 Wile, Henry E., Co., 862 Walnut St., Newton Centre 59, Mass. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

MASSACHUSETTS—Continued

Local Members

- Bianchi, Carlo, and Company, Inc., 24 Union Ave., Framingham, Mass. (H-Hvy-RR)
 Cross, E. J., Company, 150 Prescott St., Worcester 5, Mass. (B)
 Cummings, H. P., Constr. Co., 14 Prospect St., Ware, Mass. (B-Hvy-RR)
 O'Connell's, Daniel, Sons, Inc., 480 Hampden St., Holyoke, Mass. (B-H-Hvy)

21. MICHIGAN

(a) DETROIT CHAPTER

President—Bert B. Jackson, Kuhne-Simmons Co., Inc., 1300 Penobscot Bldg., Detroit 26, Mich.

Secretary-Manager—Ralph A. MacMullan, 1437-8-9 Book Bldg., Detroit 26, Mich.

Telephone: Woodward 2-6297-8

- Albrecht, Albert A., Co., The, 1217 Penobscot Bldg., Detroit 26, Mich. (B)
 Atkin-Fordon Co., 7360 W. Chicago Ave., Detroit 4, Mich. (B)
 Barry Co., The, 19420 John R St., Detroit 3, Mich. (B)
 Barton-Malow Co., McKerchey Bldg., 2631 Woodward Ave., Detroit 1, Mich. (B)
 Bass Engr. & Constr. Co., Birmingham Theatre Bldg., Birmingham, Mich. (B-Hvy-RR)
 Bryant & Detwiler Co., 2304 Penobscot Bldg., Detroit 26, Mich. (B-Hvy-RR)
 Burke, O. W., Co., 1032 Fisher Bldg., Detroit 2, Mich. (B-Hvy)
 Cooley, John, Co., 509 Fox Bldg., Detroit 1, Mich. (B)
 Couse, Walter L., & Co., 12740 Lyndon Ave., Detroit 27, Mich. (B-H-Hvy)
 Currie, Thos. E., Co., The, 2531 Conner Ave., Detroit 14, Mich. (H-Hvy)
 Darin & Armstrong, Inc., 2041 Fenkell Ave., Detroit 3, Mich. (B-H-Hvy-RR)
 Denton Constr. Co., 7-170 General Motors Bldg., Detroit 2, Mich. (H)
 Faulkner Constr. Co., 1376 E. Bennett, Ferndale 20, Mich. (B)
 Fredman, J. A., 735 S. Paddock St., Pontiac 19, Mich. (B)
 Hamer Bros., Inc., 317 Curtis Bldg., Detroit 2, Mich. (H-Hvy-RR)
 Industrial Constr. Co., 20515 Hoover Rd., Detroit 5, Mich. (B)
 Jutton-Kelly Co., 13240 Alber Ave., Dearborn, Mich. (Hvy-RR)
 Kaufmann, W. J. C., Co., 10610 Shoemaker Ave., Detroit 13, Mich. (B)
 Kuhne-Simmons Co., Inc., 1300 Penobscot Bldg., Detroit 26, Mich. (B-Hvy)
 Kutsche, A. W., & Co., 2924 W. Grand Blvd., Detroit 2, Mich. (B)
 Martens, Henry M., Co., 2111 Woodward Ave., Detroit 1, Mich. (B)
 Martin, F. H., Constr. Co., 955 E. Jefferson Ave., Detroit 7, Mich. (B)
 Misch, Arthur O., Co., 17731 Van Dyke Ave., Detroit 34, Mich. (B)
 Rogers, Chas. J., Inc., 14836 Grand River Ave., Detroit 27, Mich. (H-Hvy)

- Stibbard Constr. Co., 3000 Grand River Ave., Detroit 1, Mich. (B)
 Storen, W. J., Co., 2411 14th St., Detroit 16, Mich. (B-H-RR)
 Talbot & Meier, Inc., 1000 Larchwood Ave., Detroit 3, Mich. (B)
 Taylor, F. H., Co., 17360 Lahser Rd., Detroit 19, Mich. (B)
 Utley, J. A., Co., Box 6, N. End Sta., Detroit 2, Mich. (B-H-Hvy-RR)
 Walbridge, Aldinger Company, 409 Griswold St., Detroit 26, Mich. (B-H-Hvy-RR)
 Wermuth, Inc., 1036 St. Mary's Ave., Fort Wayne 7, Ind. (B-Hvy)
 Westphal, John C., Co., 15821 Schoolcraft, Detroit 27, Mich. (B)
 Wood, W. E., Co., 4649 Humboldt Ave., Detroit 8, Mich. (B)

(b) MICHIGAN CHAPTER

President—Harry L. Conrad, The Christman Co., 408-410 Kalamazoo Plaza, Box 536, M. O., Lansing, Mich.

Secretary-Manager—W. Weldon Allen, 127 N. Cedar St., Lansing 29, Mich.
Telephone: 2-1631

- Alstrom Constr. Co., 22 W. Western Ave., Muskegon, Mich. (B)
 Barnes Constr. Co., 1310 Wallen Ave., S. W., Grand Rapids, Mich. (B)
 Beckering Constr. Co., 2140 Horton Ave., S. E., Grand Rapids 7, Mich. (B)
 Braun, Carl, & Son, 606 McBride St., Jackson, Mich. (B)
 Christman Co., The, 408-410 Kalamazoo Plaza, Box 536, M. O., Lansing, Mich. (B-H-Hvy)
 Clark Constr. Co., Inc., 216 N. Bridge St., Grand Ledge, Mich. (B-Hvy)
 Corr, Francis J., Inc., 1120 Sheridan St., Lansing, Mich. (B)
 Datema, Geo., & Sons, 1560 Taylor Ave., N. E., Grand Rapids, Mich. (B)
 deKoning, Henry, Constr. Co., Municipal Court Bldg., Ann Arbor, Mich. (B)
 Elzinga & Volkers, 222 River Ave., Holland, Mich. (B)
 Foster, Karl B., 1015 S. Saginaw St., Flint, Mich. (B)
 Foster Schermerhorn Foster, Inc., 701 S. Holmes St., Lansing, Mich. (B)
 Granger Bros., 2702 S. Cedar St., Lansing 10, Mich. (B)
 Heineman, J. R., & Sons, Inc., 1224 N. Niagara St., Saginaw, Mich. (B)
 Herlihy Mid-Continent Company, Box A, Comstock, Mich. (B-Hvy-RR)
 Miller-Davis Co., 1287 Portage, Kalamazoo 7, Mich. (B-H-Hvy)
 Muskegon Constr. Co., 838 Jefferson St., P. O. Box 206, Muskegon, Mich. (B)
 North-Moller Co., 403 N. Jackson St., Jackson, Mich. (B-Hvy)
 Owen-Ames-Kimball Co., 38 Pearl St., N. W., Grand Rapids 2, Mich. (B-Hvy)
 Pearson Constr. Co., Inc., 240 W. Britain Ave., Benton Harbor, Mich. (B)
 Phelps-Wagner Bldrs., 731 Capital Ave., N. E., Battle Creek, Mich. (B)
 Reniger Constr. Co., Box 688, M. O., Lansing 3, Mich. (B-H-Hvy)

- Roth-Schenker Corp., The, Empire State Bldg., New York, N. Y. (B)
 Sorensen-Gross Constr. Co., 2505 Lapeer St., Flint, Mich. (B)
 Stevens, Ray, Co., The, 440 W. Ransom St., Kalamazoo, Mich. (B)
 Strom Constr. Co., P. O. Box 86, 625 1st St., N. W., Grand Rapids, Mich. (B-Hvy)
 Strom & Strom, 1770 6th St., Muskegon, Mich. (B)
 Townsend & Bottum, Inc., 1791 S. State St., P. O. Box 368, Ann Arbor, Mich. (B-Hvy)
 Trier, Fred C., Constr. Co., Box 237, W. S., 1401 Brockway, Saginaw, Mich. (B)

(c) MICHIGAN ROAD BUILDERS ASSOCIATION

President—P. M. Thornton, Thornton Constr. Co., 1028 Ethel Ave., Hancock, Mich.

Executive Secretary—C. J. Carroll, 812 Olds Tower, Lansing, Mich.

- Alpine Constr. Co., Box 337, St. Ignace, Mich. (H)
 Ann Arbor Constr. Co., 221 Felch St., Ann Arbor, Mich. (B-H-Hvy-RR)
 Atletwed, F. C., Box 175, Rt. 2, St. Clair, Mich. (B-H-Hvy-RR)
 Ayling Asphalt & Paving Co., 306 College Ave., Adrian, Mich. (H)
 Bacco Constr. Co., Iron Mt. Home Furn. Bldg., Iron Mountain, Mich. (H-Hvy-RR)
 Barnes, Andrew T., Cass City, Mich. (H)
 Blue Water Excavating Co., 1821 Elmwood St., Port Huron, Mich. (H)
 Boyd, H. R., Co., Inc., 22285 Michigan Ave., Dearborn, Mich. (H-Hvy)
 Brady, E. P., & Co., 900 Citizens Bk. Bldg., Flint 3, Mich. (H)
 Bridges, C. G., Escanaba, Mich. (H-RR)
 Brighton & Wing, 21484 Karl St., Detroit, Mich. (H)
 Bryant & Detwiler Co., 2304 Penobscot Bldg., Detroit 26, Mich. (B-H-Hvy)
 Cadillac Asphalt Paving Co., 12490 Evergreen Rd., Detroit 23, Mich. (H-RR)
 Cheney, F. G., Williamston, Mich. (H)
 Comstock, Glenn A., P. O. Box 172, Bay City, Mich. (H)
 Cooke Contr. Co., The, 1116 Penobscot Bldg., Detroit 26, Mich. (H-Hvy)
 Couper, Wm. M., Co., 1408 Iroquois Ave., Ann Arbor, Mich. (H)
 Couse, Walter L., & Co., 12740 Lyndon Ave., Detroit 27, Mich. (H)
 Crossman-McCoy, Inc., Sodus, Mich. (H)
 Currie, Thos. E., Co., The, 2531 Conner Ave., Detroit 14, Mich. (H)
 Darin & Armstrong, Inc., 2041 Fenkell Ave., Detroit 3, Mich. (B-H-Hvy)
 Davidson, L. A., 213 E. St. Joseph St., Lansing 15, Mich. (H-Hvy-RR)
 Denton Constr. Co., 7-170 General Motors Bldg., Detroit 2, Mich. (H)
 Detroit Asphalt Paving Co., 702 Transportation Bldg., Detroit 26, Mich. (H)
 Dyer, A. L., & Sons, McBrides, Mich. (H)
 East Shore Asphalt Co., P. O. Box 181, Alpena, Mich. (H)
 Edison, L. W., 924 Floral Dr., S. E., Grand Rapids 6, Mich. (H)

MICHIGAN—Continued

Fitch-Eva Co., The, 223 W. Grand River Ave., Howell, Mich. (H)
 Flynn, T. P., & Co., 2457 Woodward Ave., Detroit 1, Mich. (H)
 Fox Valley Constr. Co., Appleton State Bk. Bldg., Appleton, Wis. (H)
 Frank, D. T., Constr. Co., 424 Clifton Blvd., East Lansing, Mich. (H)
 Frisinger, John H., Inc., 1400 Linwood Ave., Ann Arbor, Mich. (H)
 Frisinger, Max R., 1724 S. University Ave., Ann Arbor, Mich. (H)
 Fry & Kain, P. O. Box 456, Lansing 2, Mich. (H-Hvy)
 Garavaglia, Louis, 24240 Mound Rd., Centerline, Mich. (H-Hvy-RR)
 General Paving Constr. Co., 235 Union Ave., S. E., Grand Rapids 6, Mich. (H)
 Getman Bros., South Haven, Mich. (B-H-Hvy)
 Gilliland Constr. Co., Rt. 2, Alpena, Mich. (H)
 Gillisse, John & Paul, Grandville, Mich. (H)
 Globe Constr. Co., 462 Portage St., Kalamazoo, Mich. (H)
 Gooding, O. E., & Co., 125 N. Normal St., Ypsilanti, Mich. (H)
 Goodwin, Carl, & Sons, 500 Delano St., Allegan, Mich. (H-RR)
 Gould & Cross, 3849 Three Mile Rd., N. E., Grand Rapids, Mich. (H)
 Grand Rapids Asphalt Paving Co., 341 Market Ave., S. W., Grand Rapids 3, Mich. (H)
 Harris-McBurney Co., 297 W. Michigan Ave., Jackson, Mich. (H)
 Hertel & Deyo Co., 5205 Division Ave., So., Grand Rapids 8, Mich. (H-Hvy)
 Hobeck, J. W., R.F.D. #1, Holland, Mich. (H)
 Hodgkiss & Douma, Box 311, Petoskey, Mich. (B-H-Hvy-RR)
 Houghton Excavating Co., Beulah, Mich. (H)
 Hull, Clarence A., Dryden, Mich. (H-Hvy-RR)
 Jackson, John K., Rt. 2, Box 390, Ironwood, Mich. (H)
 Johnson-Greene Co., 616 Ann Arbor Trust Bldg., Ann Arbor, Mich. (H-Hvy)
 Jutton-Kelly Co., 13240 Alber Ave., Dearborn, Mich. (H-Hvy-RR)
 Kebbe, Ray, Warren, Mich. (H)
 Knapp, Walter, Box 593, Monroe, Mich. (H-Hvy-RR)
 Lamb, L. W., Co., 1025 S. Shore Dr., Holland, Mich. (H-Hvy-RR)
 Leffler, A. S., Gravel Co., State St., Davison, Mich. (H)
 Leonard Constr. Co., 315 Miller St., Saginaw, Mich. (H)
 Lewis & Frisinger Co., The, 214 E. Madison St., Ann Arbor, Mich. (B-H-Hvy-RR)
 Lindberg, A., & Sons, Ishpeming, Mich. (H-Hvy-RR)
 Loomis, C. M., 415 Murray Bldg., Grand Rapids 2, Mich. (H)
 Loselle Constr. Co., Box 30, Wyandotte, Mich. (H)

Luedtke Engr. Co., Box 111, Frankfort, Mich. (H-Hvy)
 Maclean Constr. Co., 706 E. Sheridan St., Lansing 6, Mich. (H)
 McNally Constr. Co., 2809 Maplewood, Saginaw 38, Mich. (H-Hvy)
 Meagher, W. J., & Sons, 24th & Water Sts., Bay City, Mich. (H-Hvy-RR)
 Meyer, Robt. Wm., 622 E. Chapin St., Cadillac, Mich. (B-H)
 Mid-America Engr. Corp., 4922 Dempster St., Skokie, Ill. (H)
 Midland Contr. Co., 145 Rodd St., Midland, Mich. (H)
 Miller, Paul C., 101 N. Park St., Comstock Park, Mich. (H)
 Muehlenbeck, Wm. J., 1253 S. Water St., Saginaw, Mich. (H-Hvy-RR)
 Nagelkirk & Ranta, 418 Murray Bldg., Grand Rapids 2, Mich. (H)
 Nolan, E. C., Co., 8121 Warren Blvd., Centerline, Mich. (H-RR)
 Oak Constr. Co., 220 E. 7th St., Royal Oak, Mich. (B-H-Hvy-RR)
 Payne & Dolan of Wisconsin, Inc., 1138 1st Wisconsin Natl. Bk. Bldg., Milwaukee 2, Wis. (H)
 Pickitt, Harry, 409 Hubbard St., Allegan, Mich. (H)
 Pierson Contr. Co., 609 Eddy Bldg., Saginaw, Mich. (H)
 Porath, Julius, & Son Co., 702 Transportation Bldg., Detroit 26, Mich. (H)
 Posthumus, Gerritt, 35456 Van Born Rd., Wayne, Mich. (H)
 Price, Fred H., 1330 N. Genesee Dr., Lansing, Mich. (H)
 Proksch Constr. Co., Iron River, Mich. (B-H-Hvy-RR)
 Rieth-Riley Constr. Co., P. O. Box 477, W. Madison St., Goshen, Ind. (H)
 Rogers, Chas. J., Inc., 14836 Grand River Ave., Detroit 27, Mich. (H-Hvy)
 Sablain, Ray, 2827 S. Cedar St., Lansing 9, Mich. (H)
 Sachs & Kaufman, 724 Lafayette Bldg., Detroit 26, Mich. (H)
 Sargent, B. H., 310 W. Houghton Ave., West Branch, Mich. (H-Hvy-RR)
 Sargent Constr. Co., 2840 Bay Rd., Saginaw, Mich. (B-H-Hvy-RR)
 Schwaderer, E. B., & Co., P. O. Box 157, Cass City, Mich. (H)
 Schworm, Ivan W., Peninsula Shores Park, Grawn, Mich. (H)
 Shingledecker, H. C., 34 Dakota St., Pontiac, Mich. (H)
 Storen, W. J., Co., 2411 14th St., Detroit 16, Mich. (H-Hvy)
 Straits Constr. Co., 1st Natl. Bk. Bldg., St. Ignace, Mich. (H)
 Taber-Carmody Co., 125 Front Ave., N. W., Grand Rapids 4, Mich. (H-RR)
 Taylor Bros. Co., Inc., 790 Haynes St., Birmingham, Mich. (H)
 Terry & Steadman, Inc., P. O. Box 215, Bay City, Mich. (H-Hvy-RR)
 Thornton Constr. Co., 1028 Ethel Ave., Hancock, Mich. (H)
 Toebe, Walter, & Co., P. O. Box 761, Lansing 3, Mich. (H-Hvy)

Vander Veen, E. J., 2910 Plainfield Ave., Grand Rapids 5, Mich. (H)
 Vander Veen, F., & Sons, 2020 Newark, S. E., Grand Rapids 7, Mich. (H)
 Vinton Constr. Co., Coldwater, Mich. (H)
 Walser, John F., 3821 Pontiac Lake Rd., Pontiac, Mich. (H)
 West Shore Constr. Co., Zeeland, Mich. (H)
 Whitehead, I. L., Co., 1107 W. Easterday Ave., Sault Ste. Marie, Mich. (H)
 Wright Constr. Co., Williamston, Mich. (H-Hvy)
 Yerington, John G., Territorial Rd., R.F.D. #2, Benton Harbor, Mich. (H)

22. MINNESOTA

(a) ASSOCIATED GENERAL CONTRACTORS OF MINNESOTA

President—Geo. Heller, Johnson, Drake & Piper, Inc., 1138 Baker Bldg., Minneapolis 2, Minn.
 Manager—R. J. Hendershott, 910 Builders Exch. Bldg., Minneapolis 2, Minn.
 Telephone: Atlantic 0804
 Eian & Ness, 407 Stanton Ave., Fergus Falls, Minn. (B)
 Eickhof, Otto J., & Sons, Inc., Crookston, Minn. (B)
 Fowler-Veranth Constr. Co., 303 S. 1st Ave., E., Duluth 2, Minn. (B)
 Hasslen & Sons, Ortonville, Minn. (B)
 Helmer, Stanley S., 713 3d Ave., E., Grand Rapids, Minn. (B)
 Home Bldrs. Co., St. Cloud, Minn. (B)
 Kyburz Constr. Co., 208 Kresge Bldg., Aberdeen, S. Dak. (B)
 LaFond, Marcel, 615 1st St., S. E., Little Falls, Minn. (B)
 Navvik Constr. Co., Northern Natl. Bk. Bldg., Bemidji, Minn. (B)
 Rowe, Dan, 909 W. Main St., Marshall, Minn. (B)
 Stavn, H. L., Co., Inc., 2521 1st Ave., Hibbing, Minn. (B)

(Minneapolis Builders Division)

Adams Constr. Co., 2837 Girard Ave., So., Minneapolis 8, Minn. (B)
 Anderberg, O. R., Co., 2923 Oakland Ave., So., Minneapolis 7, Minn. (B)
 Bass, Jos. A., Co., 332 Sexton Bldg., Minneapolis 15, Minn. (B)
 Cederstrand, August, Co., 966 Central Ave., Minneapolis 13, Minn. (B)
 Comb, Fred R., Co., 2113 Chicago Ave., Minneapolis 4, Minn. (B)
 Cook, Geo. F., Constr. Co., 2608 Nicollet Ave., Minneapolis 8, Minn. (B)
 Crawford, J. W., Co., 2316 4th Ave., So., Minneapolis 4, Minn. (B)
 Field, C. O., Co., 2940 Harriet Ave., Minneapolis 8, Minn. (B)
 Fleisher Engr. & Constr. Co., 456 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Ganley, Ernest M., Co., Inc., 2922 Oakland Ave., Minneapolis 7, Minn. (B)
 Giersten, Walter D., Co., 900 Glenwood Ave., Minneapolis 5, Minn. (B-H)
 Haglin, C. F., & Sons, Inc., 123 Bryant Ave., No., Minneapolis 3, Minn. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

MINNESOTA—Continued

Jensen Constr. Co., P. O. Box 965, Richfield Bldg., Minneapolis 19, Minn. (B)
 Johnson, C. O., Constr. Co., 650 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Knutsen Constr. Co., 1103 Plymouth Bldg., Minneapolis 2, Minn. (B)
 Kraus-Anderson, Inc., 501 S. 8th St., Minneapolis 15, Minn. (B)
 Laurence, Paul A., Co., 416 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Lebeck & Co., 540 Baker Bldg., Minneapolis 2, Minn. (B)
 Leck, D'Arcy, Constr. Co., 2338 Stevens Ave., Minneapolis 8, Minn. (B)
 Leck, Jas., Co., 211 S. 11th St., Minneapolis 2, Minn. (B)
 Leighton, H. N., Co., 716 S. 7th St., Minneapolis 15, Minn. (B)
 Libbey & Libby Co., 244 2d Ave., So., Minneapolis 1, Minn. (B)
 Madsen Constr. Co., 2110 Nicollet Ave., Minneapolis 4, Minn. (B)
 McKenzie-Hague-Simmons Co., 1116 Flour Exch. Bldg., Minneapolis 15, Minn. (B)
 Midwest Contr. Co., 2944 17th Ave., So., Minneapolis 7, Minn. (B)
 Naugle-Leck, Inc., 714 Baker Bldg., Minneapolis 2, Minn. (B)
 Northwestern Constr. Co., 2710 Nicollet Ave., Minneapolis 8, Minn. (B)
 Peterson Constr. Co., 620 National Bldg., Minneapolis 2, Minn. (B)
 Splady & Haagenstrom, 1415 1st Ave., So., Minneapolis, Minn. (B)
 Stahr Co., The, 239 Foshay Tower, Minneapolis 2, Minn. (B)
 Standard Constr. Co., Inc., 250 Builders Exch. Bldg., Minneapolis 2, Minn. (B)
 Watson, Fred O., Co., 450 Baker Bldg., Minneapolis 2, Minn. (B)
 Witcher, Dean L., 542 Builders Exch. Bldg., Minneapolis 2, Minn. (B)

(St. Paul Builders Division)

Baumeister, Wm., Constr. Co., 635 Hamm Bldg., St. Paul 2, Minn. (B)
 Fuel Economy Engr. Co., 508-512 New York Bldg., St. Paul 1, Minn. (B)
 Hurley, Gene, Constr. Co., 403 S. Robert St., St. Paul 7, Minn. (B)
 Jensen, Chris, Co., 1385 Selby Ave., St. Paul 4, Minn. (B)
 Johnson, Jos. E., & Son, 477 Selby Ave., St. Paul 2, Minn. (B)
 Kraus-Anderson of St. Paul Co., 200 Ramsey St., St. Paul 2, Minn. (B)
 Lindstrom & Anderson, 924 Raymond Ave., St. Paul 4, Minn. (B)
 Lovingr Constr. Co., 616 Guardian Bldg., St. Paul 1, Minn. (B)
 Murphy, Wm., & Son, 428 New York Bldg., St. Paul 1, Minn. (B)
 Petersen, Lawrence, Constr. Co., 867 N. Dale St., St. Paul 3, Minn. (B)
 Sauers Constr. Co., Inc., 1550 Larpenteur Ave., W., St. Paul 8, Minn. (B)
 Shelgren, Roy A., 2102 Wabash Ave., St. Paul 4, Minn. (B)
 Souther, M. E., Constr. Co., 1533 Como Ave., St. Paul 4, Minn. (B-H-Hvy)

Steenberg Constr. Co., Inc., W. 1268 1st Natl. Bk. Bldg., St. Paul 1, Minn. (B)
 Sweitzer, J. S., & Son, Inc., 739 Pillsbury Ave., St. Paul 4, Minn. (B)

(Southern Minnesota Builders Division)

Benike, Alvin E., 1330 2d St., N. W., Rochester, Minn. (B)
 Jensen, Viggo M., & Co., P. O. Box 68, Albert Lea, Minn. (B)
 Johnson Constr. Co., 677 Main St., Winona, Minn. (B)
 Neitge, Ben, Constr. Co., 414 Cornelia St., Mankato, Minn. (B)
 Pagenhart, C. C., 217½ S. Broadway, Rochester, Minn. (B)
 Petersen, N. A., Constr. Co., 401 S. 3d St., Austin, Minn. (B)
 Schroeder, Paul, 915 4th Ave., Faribault, Minn. (B)
 Schwab, P. Earl, 166 W. 2d St., Winona, Minn. (B)
 Schwartz, G., & Co., Rochester, Minn. (B)
 Stocke & Olson, 115½ 3d St., S. W., Rochester, Minn. (B)
 Wagner Constr. Co., 406 S. Burr Oak Dr., Austin, Minn. (B)

(North Dakota Builders Division)

Flaten, Ole, Sons of Norway Bldg., Minot, N. Dak. (B)
 Johnson-Gillanders Co., 424 N. 3d St., Grand Forks, N. Dak. (B)
 Larson, John W., Bismarck, N. Dak. (B)
 Mackley & Ralston, 401 1st Ave. Bldg., Minot, N. Dak. (B)
 Mattson, Isak, & Son, 120 1st Ave., S. E., Minot, N. Dak. (B)
 Meinecke-Johnson Co., 5 N. 14th St., Fargo, N. Dak. (B)
 Moline, E. A., 118½ 1st Ave., So., Jamestown, N. Dak. (B)
 Northern Constr. Co., 509 S. 3d St., Grand Forks, N. Dak. (B-H)
 Orheim, I. E., 9 4th Ave., N. E., Minot, N. Dak. (B)
 Peterson & Beckstrum, 717 16th St., Bismarck, N. Dak. (B)
 Powers, T. F., Constr. Co., 217 4th Ave., No., Fargo, N. Dak. (B)
 Roel Constr. Co., 20 N. 14½ St., Fargo, N. Dak. (B)

(Municipal Contractors Division)

Barbarossa & Sons, Inc., 402 33d Ave., St. Cloud, Minn. (Hvy)
 Casper-Lyons Co., Grand Rapids, Minn. (Hvy)
 Donnelly, I. J., Constr. Co., 612 Drake St., St. Paul 2, Minn. (Hvy)
 Fraser, Carlisle G., 506 N. Prior Ave., St. Paul 4, Minn. (Hvy)
 Jacobs, M. J., & Sons, Bird Island, Minn. (Hvy)
 Lametti & Lametti, Inc., 615 Drake St., St. Paul 2, Minn. (Hvy)
 Nagel, J. J., Perham, Minn. (Hvy)
 Nodland-Alberg Co., Alexandria, Minn. (Hvy)
 Nodland & Eby Co., Starbuck, Minn. (Hvy)

Phelps-Drake Co., Inc., 1415 8th St., S. E., Minneapolis 14, Minn. (Hvy)
 Sandstrom & Hafner, 740 E. Superior St., Duluth, Minn. (Hvy)

(Highway and Heavy Construction Divisions)

Alexander Constr. Co., 4641 Hiawatha Ave., Minneapolis 6, Minn. (H)
 Alley, A. L., & Son, Box 387, Faribault, Minn. (H)
 Ashbach, Otto B., & Sons, Inc., 2975 Hamline Ave., No., St. Paul 8, Minn. (H)
 Ashworth & Son Co., 3601 Alabama Ave., Minneapolis 16, Minn. (H)
 Barnes-Mattison, Inc., 1230 Metropolitan Life Bldg., Minneapolis 1, Minn. (Hvy)
 Benson, Roy, & Son, Stephen, Minn. (H)
 Berghuis Constr. Co., Clara City, Minn. (H)
 Bolander, Carl, & Sons Co., 2933 Pleasant Ave., Minneapolis 8, Minn. (H)
 Bolduc, L. H., & Co., 3050 4th Ave., So., Minneapolis 8, Minn. (H)
 Collins, Wm., & Sons, Inc., 514 Black Bldg., Fargo, N. Dak. (H)
 Coons, E. W., Co., Inc., P. O. Box 239, Hibbing, Minn. (H-Hvy)
 Craig, Jay W., Co., 1814 N. E. California St., Minneapolis 13, Minn. (H)
 DeRuyter Bros., 1123 Trott Ave., W., Willmar, Minn. (H)
 Dieseth, John, Co., Fergus Falls, Minn. (H)
 Duinick Bros. & Gilchrist, Olivia, Minn. (H)
 Farrell Contr. Co., 1607 Wynne Ave., St. Paul 4, Minn. (H)
 Fegles Constr. Co., Ltd., 711 Wesley Temple Bldg., Minneapolis 4, Minn. (B-Hvy)
 Feller, L. M., Co., Rochester, Minn. (H)
 Fielding & Shepley, Inc., 1258 Bohm Ave., St. Paul 4, Minn. (H-Hvy)
 Foley Brothers, Inc., 900 New York Bldg., St. Paul 1, Minn. (B-H-Hvy)
 Freeman Constr. Co., Inc., Spring Valley, Minn. (H)
 Ganley, Howard, Inc., 2336 Hampden Ave., St. Paul 4, Minn. (H)
 Groves, Lundin & Cox, Inc., 310 Wesley Temple Bldg., Minneapolis 4, Minn. (Hvy)
 Groves, S. J., & Sons Co., 509 Wesley Temple Bldg., Minneapolis 4, Minn. (H-Hvy)
 Haagenstrom & Tranby, McIntosh, Minn. (H)
 Haggart Constr. Co., The, Box 1310, Fargo, N. Dak. (H)
 Hallett Constr. Co., Crosby, Minn. (H-Hvy)
 Haugen & Mark, Fergus Falls, Minn. (H)
 Hector Constr. Co., Inc., Hector, Minn. (H)
 Herbison Constr. Co., Brainerd, Minn. (H)
 Hightm & Wondra, Inc., Blooming Prairie, Minn. (H)
 Hodgman, W., & Sons, K. of C. Bldg., Fairmont, Minn. (H)
 Industrial Contr. Co., 3050 S. 4th Ave., Minneapolis 8, Minn. (H)
 Jeffries Constr. Co., Rt. 1, Mankato, Minn. (H)
 Johnson, Al Construction Co., 608 Foshay Tower, Minneapolis 2, Minn. (H-Hvy)
 Johnson, Drake & Piper, Inc., 1138 Baker Bldg., Minneapolis 2, Minn. (B-H-Hvy-RR)
 Joyce, Leon, 220½ 1st Ave., S. W., Rochester, Minn. (H)

A.G.C. DIRECTORY

MINNESOTA—Continued

Magee, W. W., Co., 1397 Laurel Ave., St. Paul 4, Minn. (B-H-Hvy)
 McCree & Co., 918 New York Bldg., St. Paul 1, Minn. (H-Hvy-RR)
 Nelson, C. L., & Co., Inc., 510 N. Bluff, Brainerd, Minn. (H)
 Nelson, Mullen & Nelson, Inc., 355 Gateway Bldg., Minneapolis 1, Minn. (Hvy)
 Nelson, Mullen & Webster, 355 Gateway Bldg., Minneapolis 1, Minn. (H)
 Noel, W. H., Co., Jamestown, N. Dak. (H)
 Northern Improvement Co., Fargo, N. Dak. (H)
 Okes Constr. Co., E. 1501 1st Natl. Bk. Bldg., St. Paul 1, Minn. (H-Hvy)
 O'Loughlin & Hansen, 218 1st Ave., S. W., Rochester, Minn. (H)
 Park Constr. Co., 1405 11th Ave., So., Minneapolis 4, Minn. (H)
 Pedersen Bros., Inc., Montevideo, Minn. (H)
 Purtell, Harold, Constr. Co., 317 Hamm Bldg., St. Paul 2, Minn. (H-Hvy)
 Reese, Herbert, Greenbush, Minn. (H)
 Sculley, C. F., Constr. Co., 725 Front Ave., St. Paul 3, Minn. (H)
 Skelton, Ray W., Co., Inc., 6540 Lyndale Ave., So., Minneapolis 19, Minn. (H)
 Sorensen Bros., Inc., P. O. Box 246, Albert Lea, Minn. (H)
 Swingen Constr. Co., 213½ N. 4th St., Grand Forks, N. Dak. (H)
 Ulland Bros., Austin, Minn. (H)
 United Construction Co., 64 W. 5th St., Winona, Minn. (Hvy)
 Welch, Mike, 1150 Plymouth Bldg., Minneapolis 2, Minn. (H)
 Winston Bros. Company, 1470 Northwestern Bk. Bldg., Minneapolis 2, Minn. (B-H-Hvy)

23. MISSISSIPPI

(a) MISSISSIPPI VALLEY FLOOD CONTROL BRANCH

President—C. B. Ford, Forcum-James Co., Dyersburg, Tenn.
Manager—R. W. Crawford, Suite 203, Hotel Peabody, Memphis 3, Tenn.
Telephone: 8-1733

Ace Mining & Contr. Co., Inc., 1021 Pyramid Bldg., Little Rock, Ark. (Hvy)
 Atlas Constr. Co., Waxahachie, Texas (Hvy)
 Blanks, H. B., Constr. Co., Box 37, Vidalia, La. (Hvy)
 Cohen, S. J., Blytheville, Ark. (Hvy)
 Cook Constr. Co., Jackson, Miss. (Hvy)
 Crumpecker, Wm., & Sons, Morehouse, Mo. (Hvy)
 Driver Contr. Co., The, 406 Cotton Exch. Bldg., Memphis, Tenn. (Hvy)
 Forcum-James Co., Dyersburg, Tenn. (B-H-Hvy)
 Fordice Constr. Co., Rm. 42, Porter Bldg., Memphis, Tenn. (Hvy)
 Great Lakes Dredge & Dock Co., 124 Camp St., New Orleans, La. (Hvy)
 Hanson, A. J., Co., 1604 Henry St., Pineville, La. (B-H-Hvy)
 Hill, D. B., 619 Parker St., P. O. Box 2437, Little Rock, Ark. (Hvy)

Hogan, Ben M., & Co., Box 2680, Little Rock, Ark. (Hvy)
 Hooper Constr. Co., P. O. Box 4471, Coral Gables, Fla. (Hvy)
 Hough-Cowgur & Co., 320 N. 4th St., St. Louis, Mo. (Hvy)
 Hyde Constr. Co., Box 385, Jackson, Miss. (Hvy)
 Ingram, W. K., Constr. Co., Box 445, West Memphis, Ark. (Hvy)
 Inland Constr., Inc., Rosedale, Miss. (Hvy)
 Jahncke Service, Inc., 814 Howard Ave., New Orleans, La. (Hvy)
 James, T. L., & Co., Inc., Box 531, Ruston, La. (H-Hvy)
 Jones & Buchanan, P. O. Box 1733, Alexandria, La. (Hvy)
 Jones-Gillis Contr. Co., Clarksdale, Miss. (Hvy)
 Jones, S. K., Constr. Co., Sterick Bldg., Memphis, Tenn. (Hvy)
 Killman, Kile, Constr. Co., Inc., P. O. Box 129, Grenada, Miss. (Hvy)
 LaPlant, Clyde O., Tunica, Miss. (Hvy)
 List, C. J., Constr. Co., 415 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy)
 Luhr Bros., Inc., Columbia, Ill. (Hvy)
 Markham & Brown & L. L. Sanders, 1961 N. Industrial Blvd., Dallas, Texas (Hvy)
 McAlister Constr. Co., 833 State St., Pine Bluff, Ark. (Hvy)
 McWilliams Dredging Company, 860 St. Charles St., P. O. Box 584, New Orleans 7, La. (Hvy)

Mears Constr. Co., Osceola, Ark. (Hvy)
 Mississippi Valley Engr. & Constr. Co., 736 Alabama St., Memphis, Tenn. (Hvy)
 Morrison-Knudsen Co., Inc., 319 Broadway, Box 450, Boise, Idaho (Hvy)
 Patton-Tully Transportation Co., N. 2d St., Memphis, Tenn. (Hvy)
 Pioneer Contr. Co., P. O. Box 37, Bickford Sta., Memphis, Tenn. (Hvy)
 Porter-DeWitt Constr. Co., P. O. Box 279, Poplar Bluff, Mo. (Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (Hvy)
 Reid, R. J., Contr. Co., P. O. Box 1990, Birmingham, Ala. (Hvy-RR)
 Rodgers, H. N., & Sons Co., P. O. Box 750, Memphis, Tenn. (Hvy-RR)
 Smith, Gerald, Constr. Co., 923 S. 3d St., Memphis, Tenn. (Hvy)
 Vollmer, C. W., & Co., Cotton Exch. Bldg., Houston, Texas (Hvy)
 Walsh-Weaver Constr. Co., Inc., Box 631, Jackson, Miss. (Hvy)
 Watts, Cleal T., Rochdale, Miss. (Hvy)
 Weymouth Constr. Co., P. O. Box 319, Memphis, Tenn. (Hvy)

(b) ASSOCIATED BUILDING CONTRACTORS OF MISSISSIPPI

President—W. G. Wetmore, 649 N. Mill St., P. O. Box 63, Jackson, Miss.
Manager—Junior O'Mara, P. O. Box 141, Jackson, Miss.
Telephone: 2-0726

Bass, G. E., & Co., P. O. Box 1033, Jackson, Miss. (B)
 Beckelheimer, W. T., 427 Eastview St., Jackson 26, Miss. (B)

Campbell Constr. Co., 792 Commerce St., Jackson, Miss. (B)
 Dye & Mullings, P. O. Box 485, Columbia, Miss. (B)
 Flint Bros. Constr. Co., 904 Deposit Guaranty Bldg., P. O. Box 1289, Jackson, Miss. (B)
 Harvey, L. A., 711 Eagle Ave., Jackson, Miss. (B)
 Howie Constr. Co., 720 Bratton St., Jackson, Miss. (B)
 Jordan Constr. Co., P. O. Box 973, Jackson, Miss. (B)
 King-North Constr. Co., 125 Mayes St., Box 1012, Jackson, Miss. (B)
 Reed, M. T., Constr. Co., Millsaps & Wightman Sts., P. O. Box 1066, Jackson, Miss. (B-H)
 Starr Constr. Co., May Bldg., Box 341, Greenville, Miss. (B)
 Thompson, Frank, 114½ N. Farish St., P. O. Box 1051, Jackson, Miss. (B)
 Wells, W. L., 524 Mitchell Ave., Jackson, Miss. (B-H)
 Wetmore, W. G., 649 N. Mill St., P. O. Box 63, Jackson, Miss. (B)

24. MISSOURI

(a) KANSAS CITY CHAPTER

President—Gus F. Rau, Jr., Rau Constr. Co., 2409 Harrison, Kansas City 8, Mo.
Executive Secretary—H. G. Palmer, 20 W. 9th St. Bldg., Kansas City 6, Mo.
Telephone: Victor 8005

Brown-Hawkins Constr. Co., 325 Finance Bldg., Kansas City 6, Mo. (B)
 Campbell, Orville, 121½ W. Lexington St., Independence, Mo. (B)
 Chambers-Tarbell, 1643 Bellview, Kansas City 8, Mo. (B)
 Collins Constr. Co., 15 W. 10th, Kansas City 6, Mo. (B)
 Dreier & Son Constr. Co., 1123 Quindaro Blvd., Kansas City 2, Kans. (B)
 Dunn, J. E., Constr. Co., 929 Holmes St., Kansas City 6, Mo. (B)
 Elliott, Hiram, Constr. Co., Suite 705-6, Commerce Trust Bldg., 922 Walnut St., Kansas City 6, Mo. (B)
 Estrin Constr. Co., 828 E. 9th St., Kansas City, Mo. (B)
 Flett Constr. Co., 4325 Troost Ave., Kansas City 4, Mo. (B)
 Fogel Contrs., Inc., 1212 E. 8th, Kansas City 6, Mo. (B)
 Fox, H. H., Constr. Co., 540 Railway Exch. Bldg., Kansas City 6, Mo. (B)
 Haren & Laughlin Constr. Co., 953 Minnesota Ave., Kansas City 14, Kans. (B)
 Hoffman, Morris, Contr. Co., 309-11 Victor Bldg., Kansas City 6, Mo. (B)
 Hucke, Clarence P., Co., Dwight Bldg., Kansas City 6, Mo. (B)
 Inter State Constr. Co., 3621 Troost Ave., Kansas City 3, Mo. (B-Hvy)
 Kelly, C. A. & R. J., 603 Porter Bldg., Broadway at 34th St., Kansas City 2, Mo. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

MISSOURI—Continued

Knoop, J. K., Constr. Co., 300 Dwight Bldg., 1004 Baltimore Ave., Kansas City 6, Mo. (B)
 Long Construction Company, 810 Rialto Bldg., Kansas City 6, Mo. (B-Hvy)
 Miller-Stauch Constr. Co., 321 Railway Exch. Bldg., Kansas City 6, Mo. (B)
 Patti, S., Constr. Co., Inc., 1340 Admiral Blvd., Kansas City 6, Mo. (B)
 Rau Constr. Co., 2409 Harrison, Kansas City 8, Mo. (B)
 Rawlings, Wm. S., Co., 1004 Forest Ave., Kansas City 6, Mo. (B)
 Redmond Constr. Co., 428 Railway Exch. Bldg., Kansas City 6, Mo. (B)
 Schweiger Constr. Co., 1525 Michigan Ave., Kansas City 1, Mo. (B)
 Swenson Constr. Co., 3305 Terrace St., Kansas City 2, Mo. (B)
 Universal Constr. Co., 522 Scarritt Bldg., Kansas City 6, Mo. (B)
 Weeks Constr. Co., Inc., 1814 Harrison, Kansas City 8, Mo. (B)
 Winn-Senter Constr. Co., 430 Railway Exch. Bldg., Kansas City 6, Mo. (B)

(b) ASSOCIATED GENERAL CONTRACTORS OF MISSOURI

President—L. J. Kissick, Sr., Kissick & Son Constr. Co., Hickman Mills, Mo.
Manager—E. C. L. Wagner, Hotel Governor, Jefferson City, Mo.
Telephone: 1640

Arnold, Lewis W., Rt. 2, Mexico, Mo. (H)
 Atkinson, C. H., Paving Co., Chillicothe, & Rm. 3, King Hill Bldg., St. Joseph 7, Mo. (H-Hvy)
 Bennett, Geo., Constr. Co., 1520 Central Ave., Kansas City 2, Kans. (H-Hvy)
 Bilhorn, Bower & Peters, Inc., 8003 Forsythe Blvd., Clayton 5, Mo. (Hvy)
 Brunn Constr. Co., 1605 E. 76th St., Kansas City 5, Mo. (Hvy-RR)
 Bushman Constr. Co., Box 107, St. Joseph, Mo. (H)
 Cameron, Joyce & Co., 19 S. 7th St., Keokuk, Iowa (H-Hvy)
 Clark & Runquist Constr. Co., P. O. Box 72, Savannah, Mo. (H)
 Clarkson Constr. Co., The, 4133 Gardner Ave., Box 4924, Sta. F, Kansas City 1, Mo. (H-Hvy)
 Concrete Materials & Constr. Co., Box 790, 405 Granby Bldg., Cedar Rapids, Iowa (H)
 Condon-Cunningham Company, 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
 Conduit Constr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (Hvy)
 Davidson, M. J., 5828 Lindenwood, St. Louis 9, Mo. (H)
 Davis Constr. Co., Inc., 6th & Spring Sts., Boonville, Mo. (H-Hvy)
 Feeney Constr. Co., 7th & Olive Sts., St. Joseph, Mo. (H)
 Foreman, C. S., Co., 1221 Baltimore Ave., Kansas City 6, Mo. (H-Hvy)
 Gast & Ray Constr. Co., 106 S. Main, Louisiana, Mo. (H)

Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H)
 Grantwood Contr. Co., Inc., 7952 S. Rock Hill Rd., Webster Groves 23, Mo. (H-Hvy)
 Gray, Len, 8742 Litzinger Dr., Brentwood 17, Mo. (H-Hvy)
 Handley, Wm. N., 119 E. Franklin, Richmond, Mo. (H-Hvy)
 Harlin, E. L., West Plains, Mo. (H)
 Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Hayes, L. W., Inc., 222 W. 72d St., Kansas City 5, Mo. (H)
 Hough-Cowgur & Co., 320 N. 4th St., St. Louis, Mo. (Hvy)
 Howard Constr. Co., 1419 N. Osage St., Sedalia, Mo. (H)
 Kansas City Bridge Co., 928 Broadway, Kansas City 6, Mo. (Hvy)
 Kissick & Son Constr. Co., Hickman Mills, Mo. (H)
 Knutson-Gould Constr. Co., 405 Congress Bldg., 3527 Broadway, Kansas City 2, Mo. (H)
 Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy)
 Kraus, Samuel, Co., 649 Edmund Ave., St. Louis 10, Mo. (H-Hvy)
 Krehbiel-Stalker Constr. Co., 411 S. Garth, Columbia, Mo. (H-Hvy)
 Land Constr. Co., 1207 S. 4th St., St. Joseph 26, Mo. (H-Hvy)
 Latta, J. E., Constr. Co., 6609 Latta Pl., St. Louis 20, Mo. (B-Hvy)
 List, C. J., Constr. Co., 415 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy)
 List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
 List & Weatherly Constr. Co., 296 Plaza Theatre Bldg., 231 W. 47th St., Kansas City 2, Mo. (H-Hvy)
 Luth, Fred M., & Sons, Inc., 4516 McRee Ave., St. Louis 10, Mo. (Hvy)
 Lynn, W. A., Constr. Co., 1022 Trust Bldg., Lincoln, Nebr. (Hvy)
 Maloney, J. T., & Son, 148 S. Elm, Webster Groves 19, Mo. (H-Hvy)
 Markham & Brown, 1961 N. Industrial Blvd., Dallas, Texas (H)
 Mary Constr. Co., Cape Girardeau, Mo. (Hvy)
 Massman Constr. Co., 737 New York Life Bldg., Kansas City 6, Mo. (Hvy)
 Masters-Jackson Paving Co., 630 Woodruff Bldg., Springfield, Mo. (H)
 Maxwell Bridge Co., The, P. O. Box 348, Columbus, Kans. (H)
 McGeorge, W. P., Jr., Box 995, Pine Bluff, Ark. (H-Hvy)
 Menefee, W. J., Constr. Co., 400 W. 2d St., Sedalia, Mo. (H)
 Metcalfe & Hamilton Constr. Co., 703 Railway Exch. Bldg., Kansas City 6, Mo. (Hvy)
 Midwest Constrs., Inc., Poplar Bluff, Mo. (H)
 Midwest Precrete Co., 7600 E. 17th St., Kansas City 3, Mo. (H)
 Missouri Petroleum Prods. Co., P. O. Box 166, Clayton, Mo. (H)

O'Dell & Riney Constr. Co., Box 3775, Kirkwood 22, Mo. (H-Hvy)
 Payne & Dolan, Inc., 20 N. Wacker Dr., Chicago 6, Ill. (H)
 Penzel Constr. Co., Jackson, Mo. (B-H)
 Perkinson, Henry L., Constr. Co., 132 E. Douglas St., St. Louis 7, Mo. (H)
 Pohl, Jos. L., Box 13, Nevada, Mo. (H-Hvy)
 Porter-DeWitt Constr. Co., P. O. Box 279, Poplar Bluff, Mo. (H-Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (H)
 Quinn Constr. Co., 5006 Main St., Kansas City 2, Mo. (H-Hvy)
 Regenhart Constr. Co., 302 Hemmelberger-Harrison Bldg., Cape Girardeau, Mo. (H-Hvy)
 Reno Constr. Co., 5700 W. 79th St., Overland Park, Kans. (H)
 Riney, L. W., Constr. Co., 323 S. Maple, Hannibal, Mo. (H)
 Rock Hill Asphalt & Constr. Co., 8820 Ladue Rd., P. O. Box 229, Clayton 5, Mo. (H)
 Sheets, Frank, 2729 McGee Trafficway, Kansas City 8, Mo. (H-Hvy)
 Storms & Frew Constr. Co., 6601 E. 37th St., Kansas City 3, Mo. (H-Hvy)
 Tarlton, G. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-H-Hvy)
 Tobin, J. A., Constr. Co., 3700 Rainbow Blvd., Kansas City 3, Kans. (H-Hvy)
 Tobin Quarries, Inc., 220 W. 39th St., Kansas City 2, Mo. (B-H-Hvy)
 Trager, Frank, 401 S. Washington St., Chillicothe, Mo. (H)
 Vance Bros., 50th & Brighton, Kansas City 3, Mo. (H)
 Wilson, C. T., Contr. Co., 99 E. Grand St., Louis 7, Mo. (B-H-Hvy)
 Winston Bros. Company, 1470 Northwestern Bk. Bldg., Minneapolis 2, Minn. (H-Hvy)

(c) ASSOCIATED GENERAL CONTRACTORS OF ST. LOUIS

President—A. R. Elsperman, G. L. Tarlton Constr. Co., 5505 Dale Ave., St. Louis 10, Mo.
Manager—Henry S. Till, Jr., 511 Locust St., St. Louis 1, Mo.
Telephone: Chestnut 8339

(Building Division)

Abrahams, Sol, & Son Constr. Co., 1207 Delmar Ave., St. Louis 3, Mo. (B)
 Alberici, J. S., Constr. Co., Inc., 1550 Irving Ave., St. Louis 20, Mo. (B)
 Alport-Carlo Constr. Co., Title Guaranty Bldg., St. Louis 1, Mo. (B)
 Bank Bldg. & Equip. Corp. of America, 906 Sidney St., St. Louis 4, Mo. (B)
 Brockmeyer Constr. Co., 634 N. Grand Blvd., St. Louis 3, Mo. (B)
 Brunson, E. A., Constr. Co., 4052 Forest Park Blvd., St. Louis 8, Mo. (B)
 Bumiller & Meyersieck, 2604 Cherokee St., St. Louis 18, Mo. (B)
 Cousins, Geo. L., Contr. Co., 875 N. Skinner Blvd., St. Louis 5, Mo. (B-Hvy)
 Cunliff, Wm. H. & Nelson, Co., 3320 Lindell Blvd., St. Louis 3, Mo. (B)
 Dailey, H. A., Inc., 876 Hodiadmont Ave., St. Louis 12, Mo. (B)

A.G.C. DIRECTORY

MISSOURI—Continued

David, E. F., House Moving Co., 1548 S. Vandeventer Ave., St. Louis 10, Mo. (B)
 Deal, H. B., & Co., Inc., 5517 Manchester Ave., St. Louis 10, Mo. (B)
 Dickie Constr. Co., 517 Louderman Bldg., St. Louis 1, Mo. (B)
 Dilschneider, Ray M., Inc., 8600 Manchester Rd., St. Louis 17, Mo. (B)
 Elam Constr. Co., 5203 Hampton Ave., St. Louis 9, Mo. (B)
 Frazier-Davis Constr. Co., 1319 Macklind Ave., St. Louis 10, Mo. (B-H-Hvy-RR)
 Fruin-Colnon Constr. Co., 1706 Olive St., St. Louis 3, Mo. (B-H-Hvy-RR)
 Gamble Constr. Co., 804 Pine St., St. Louis 1, Mo. (B)
 Gutmann, John B., Constr. Co., Inc., 1301 S. Vandeventer Ave., St. Louis 10, Mo. (B)
 Haeseler, A. H., Bldg. & Contr. Co., 2346 Palm St., St. Louis 7, Mo. (B)
 Harting, W. C., Constr. Co., 722 Chestnut St., St. Louis 1, Mo. (B)
 Hellmich, Walter F., Inc., 1610 Hampton Ave., St. Louis 10, Mo. (B)
 Hertfelder, Wm., Inc., 4108 Clayton Ave., St. Louis 10, Mo. (B)
 Hill, John, Constr. Co., 915 Olive St., St. Louis 1, Mo. (B)
 Ileson Co., Inc., The, 432 S. Sappington Rd., Kirkwood, Mo. (B)
 Jones-Kissner Constr. Co., 706 Chestnut St., St. Louis 1, Mo. (B)
 Kiewit, Peter, Sons' Co., Veterans Hospital, Jefferson Barracks 23, Mo. (B-Hvy)
 Kloster Co., 4607 Beck Ave., St. Louis 16, Mo. (B)
 Lecoutour Constr. Co., 4903 Delmar Blvd., St. Louis 8, Mo. (B)
 MacDonald Constr. Co., 3829 W. Pine Blvd., St. Louis 8, Mo. (B)
 McCormack, R. C., 3936 Lindell Blvd., St. Louis 8, Mo. (B)
 Mikkelsen, E. C., Constr. Co., Inc., 201 Grand Ave., Kirkwood 22, Mo. (B)
 Millstone, I. E., Constr. Co., 4343 Clayton Ave., St. Louis 10, Mo. (B-Hvy)
 Moeller, Geo., Constr. Co., 3007 Wyoming St., St. Louis 18, Mo. (B)
 Murch-Jarvis Co., Inc., 718 Locust St., St. Louis 1, Mo. (B)
 Musick, Don C., Constr. Co., 4900 Washington Blvd., St. Louis 8, Mo. (B)
 Park, Alden B., 17 N. Hanley Rd., Clayton 5, Mo. (B)
 Paulus, Robt., Constr. Co., 3441 Morganford Rd., St. Louis 16, Mo. (B)
 Pelligrin Green Constr. Co., 504 Columbia Bldg., St. Louis 1, Mo. (B)
 Saenger, C. Geo., 7801 Delmar Blvd., University City 5, Mo. (B)
 Shelby Constr. Co., Inc., 1411 Brentwood Blvd., St. Louis 17, Mo. (B)
 Smith-Cooke Constr. Co., 4829 Easton Ave., St. Louis 13, Mo. (B)
 Stocker, L. O., Co., 3928 Lindell Blvd., St. Louis 8, Mo. (B)
 Tarlton, G. L., Contr. Co., 5505 Dale Ave., St. Louis 10, Mo. (B-Hvy)

Wells & Wells, Inc., 420 Security Bldg., St. Louis 2, Mo. (B-Hvy)
 Westlake Constr. Co., 1919 Railway Exch. Bldg., St. Louis 1, Mo. (B)
 Williams, J. E., Constr. Co., 6490 Page Ave., St. Louis 14, Mo. (B)
 Willingham Constr. Co., Inc., 5701 Vernon Ave., St. Louis 12, Mo. (B)
 Woermann Constr. Co., 3800 W. Pine Blvd., St. Louis 8, Mo. (B)
 Wright, Robt. R., 7910 Bonhomme Ave., Clayton 5, Mo. (B)

(Highway and Heavy Division)

Aalco Heavy Hauling Co., 3519 Page Blvd., St. Louis 6, Mo. (Hvy)
 Bangert Bros. Constr. Co., 8510 Lackland Rd., Overland 14, Mo. (H)
 Ben Hur Constr. Co., 5100 Farlin Ave., St. Louis 15, Mo. (Hvy)
 Blue, W. A., Co., 7820 Forsyth Blvd., Clayton 5, Mo. (Hvy)
 Bridges Paving Co., 1411 Central Industrial Ave., St. Louis 10, Mo. (H)
 Conduit Contr. Co., Inc., 2317 Tennessee Ave., St. Louis 4, Mo. (Hvy)
 Granite Bituminous Paving Co., 3943 Duncan Ave., St. Louis 10, Mo. (H)
 Grantwood Contr. Co., Inc., 7952 S. Rock Hill Rd., Webster Groves 23, Mo. (H-Hvy)
 Hamm, Daniel, Drayage Co., 2d & Tyler Sts., St. Louis 6, Mo. (Hvy)
 Kraus, Samuel, Co., 649 Edmund Ave., St. Louis 10, Mo. (H-Hvy)
 Kroeger, Harry W., Erection Co., 1711 Hereford St., St. Louis 10, Mo. (Hvy)
 Krummel, Paul, 7201 Weil Ave., Shrewsbury 19, Mo. (Hvy)
 Latta, J. E., Constr. Co., 6609 Latta Pl., St. Louis 20, Mo. (H-Hvy-RR)
 Luth, Fred M., & Sons, Inc., 4516 McRee Ave., St. Louis 10, Mo. (Hvy)
 Maguire Constr. Co., 3465 St. Mark's Lane, Normandy 14, Mo. (H-Hvy)
 Micotto, R. C., Constr. Co., 6918 Lansdowne Ave., St. Louis 9, Mo. (H-Hvy)
 Perkinson, Henry L., 132 E. Douglas St., St. Louis 7, Mo. (H-Hvy)
 Riley, Wm. A., Paving & Constr. Co., Inc., 4903 Delmar Blvd., St. Louis 8, Mo. (H-Hvy)
 St. Louis Steel Erection Co., 5112 Wise Ave., St. Louis 10, Mo. (B-H-Hvy)
 Skrainka Constr. Co., 7173 Delmar Blvd., University City 5, Mo. (H-Hvy)
 Southampton Hauling Co., 4499 Fyler Ave., St. Louis 9, Mo. (Hvy)
 Victory Constr. Co., 2240 Brentwood Blvd., Brentwood 17, Mo. (Hvy)
 Vollmar Bros. Constr. Co., Foot of Victor St., St. Louis 4, Mo. (B-Hvy)
 Wilson, C. T., Contr. Co., 99 E. Grand, St. Louis 7, Mo. (H-Hvy-RR)

Local Member

Lehr Constr. Co., 2115 Frederick Ave., St. Joseph, Mo. (B)

25. MONTANA

(a) MONTANA CONTRACTORS' ASSOCIATION, INC.

President—Geo. Nilson, Nilson-Smith Constr. Co., P. O. Box 1147, Great Falls, Mont.

Secretary-Manager—J. Edward Hergert, Mezzanine, Placer Hotel, Helena, Mont.

Telephone: 3061

A & W Constr. Co., Box 228, Glasgow, Mont. (H)
 Arkwright, Stanley H., Inc., 1200 6th Ave., No., P. O. Box 1211, Billings, Mont. (H)
 Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif. (H-Hvy)
 Birch, S., & Sons Constr. Co., 314 Ford Bldg., Great Falls, Mont. (H-Hvy)
 Blakeslee, E. H., Constr. Co., 431 Ford Bldg., Great Falls, Mont. (Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle, Wash. (B-H)
 Cahill-Mooney Constr. Co., Box 398, Butte, Mont. (B-H-Hvy)
 Clifton & Applegate, Box 1473, Spokane 6, Wash. (H-Hvy-RR)
 Dillsworth & Punnea, 403½ Madison St., Helena, Mont. (H-Hvy)
 F. & S. Contr. Co., P. O. Box 4, Butte, Mont. (H)
 Geery, Glenn, Inc., 439 Connell Ave., Missoula, Mont. (H-Hvy-RR)
 Groves, S. J., & Sons Co., 509 Wesley Temple Bldg., Minneapolis 4, Minn. (H-Hvy)
 Halvorson, Carl M., 218 Builders Exch. Bldg., Portland, Oreg. (H-Hvy)
 Hansen & Parr Constr. Co., 1103 N. Calispel, Spokane, Wash. (Hvy)
 Herrick, R. P., Co., 2712 Phillips St., Butte, Mont. (H)
 Hilde Constr. Co., Inc., 3810 7th Ave., No., Great Falls, Mont. (H-Hvy-RR)
 Holzworth Constr. Co., P. O. Box 158, 1st Natl. Bk. Bldg., Miles City, Mont. (B-H-Hvy)
 Inland Constr. Co., 3867 Leavenworth St., Omaha 5, Nebr. (H-Hvy-RR)
 Kiely Constr. Co., P. O. Box 65, Butte, Mont. (H)
 Kiewit, Peter, Sons' Co., P. O. Box 875, Sheridan, Wyo. (Hvy)
 Kunev, Max J., Co., N. 120 Ralph St., Box 4008, Sta. B, Spokane 15, Wash. (H-Hvy-RR)
 Lalonde, Albert, Co., Sidney, Mont. (B-H)
 Lease & Leigland, 1501 N. 35th St., Seattle 3, Wash. (B-H-Hvy)
 Lewis Constr. Co., 405 1st Ave., So., Great Falls, Mont. (B)
 Lockwood, L. V., Box 227, Glasgow, Mont. (Hvy)
 Long Constr. Co., Box 1291, Billings, Mont. (H-Hvy-RR)
 Lyon Constr. Co., Clinton, Mont. (H-RR)
 Marshall, G. E., P. O. Box 217, Melstone, Mont. (H)
 McKinnon-Decker Co., 1520 Hauser Blvd., Helena, Mont. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

MONTANA—Continued

McLaughlin Constr. Co., 12th & Clark Sts.,
Livingston, Mont. (H)
McLaughlin, Inc., 327 Ford Bldg., Great Falls,
Mont. (H)
Midland Constr. Co., P. O. Box 1485, Mis-
soula, Mont. (H-Hvy)
Montana Engr. & Constr. Co., Box 823,
Helena, Mont. (H-Hvy-RR)
Nilson-Smith Constr. Co., P. O. Box 1147,
Great Falls, Mont. (H-Hvy)
Nolan Bros., Inc., 1210 Builders Exch. Bldg.,
Minneapolis 2, Minn. (H)
Northwestern Engr. Co., 1311 St. Joe St., Box
1392, Rapid City, S. Dak. (B-H)
O'Connor Constr. Co., Fromberg, Mont. (B-
H)
O'Neil Constr. Co., The, P. O. Box 1151,
Havre, Mont. (H-Hvy)
Powell, E. C., 11th Ave., No. & 11th St.,
Great Falls, Mont. (H)
Richardson, Lou, Box 513, Miles City, Mont.
(H)
Riedesel Constr. Co., 2325 9th Ave., No., Box
477, Billings, Mont. (B-H-Hvy-RR)
Schye & Sullivan, White Sulphur Springs,
Mont. (B-H-Hvy)
Shannon, Chas., Co., 502 S. Washington St.,
Butte, Mont. (H-Hvy)
Snyder, Chas. B., P. O. Box 1952, Great Falls,
Mont. (H)
Standard Constr. Co., Box 749, Bozeman,
Mont. (H-Hvy)
Staunton, Thos., 806 1st Natl. Bk. Bldg., P. O.
Box 1745, Great Falls, Mont. (H)
Taggart Constr. Co., Inc., P. O. Box 560,
Cody, Wyo. (H-Hvy)
Thomas Constr. Co., 1615 6th Ave., No., Bil-
lings, Mont. (H-Hvy)
Union Constr. Co., Inc., Fort Missoula, P. O.
Box 1261, Missoula, Mont. (H-RR)
Utility Bldrs., Inc., 431 Ford Bldg., Great
Falls, Mont. (Hvy)
White Bros. Constr. Co., Inc., Box 80, Mon-
arch, Mont. (Hvy)
Woodward, L. A., Constr. Co., 1720 Maurice
St., Missoula, Mont. (H-Hvy-RR)

(b) MONTANA BUILDING CHAPTER

**President—Wm. R. Lowe, Riedesel
Constr. Co., Box 477, Billings, Mont.**
**Secretary-Manager—J. Edward Hergert,
Mezzanine, Placer Hotel, Helena,
Mont.**

Telephone: 3061

Askevold Constr. Co., Inc., Mammond Ar-
cade, P. O. Box 1125, Missoula, Mont.
(B)
Boespflug, J. C., Constr. Co., P. O. Box 1237,
Billings, Mont. (B)
Cahill-Mooney Constr. Co., 420 N. 25th St.,
Billings, Mont. (B-Hvy)
Carlson, Arved, 301 Burlington Ave., Mis-
soula, Mont. (B)
Carson Constr. Co., Inc., 1st Natl. Bk. Bldg.,
P. O. Box 1153, Helena, Mont. (B)
Dudley Constr. Co., P. O. Box 546, Great
Falls, Mont. (B-Hvy)
Graham, Wilbur L., Strand Bldg., P. O. Box
182, Kalispell, Mont. (B)

Haggerty-Messmer Co., P. O. Box 334, Boze-
man, Mont. (B-Hvy)
Hitz Constr. Co., Box 742, Billings, Mont.
(B-H)
Holm Constr. Co., Box 1107, Glendive, Mont.
(B)
Johnson, Al, 326 Allen St., Helena, Mont. (B)
Karaffa, Jos. C., 910 12th St., No., Great Falls,
Mont. (B)
McKinnon-Decker Co., 1520 Hauser Blvd.,
Helena, Mont. (B)
Mitchell, C. E., & Sons, 917 4th Ave., No.,
Great Falls, Mont. (B)
O'Neil-Anderson, Box 1151, Havre, Mont.
(B)
Pappin Constr. Co., 700 2d St., So., P. O. Box
1432, Great Falls, Mont. (B)
Pew, Chas. H., 314 Evans Ave., Missoula,
Mont. (B)
Riedesel Constr. Co., 2325 9th Ave., No., Box
477, Billings, Mont. (B-H-Hvy-RR)
Sletten Constr. Co., 1301 10th Ave., No., P. O.
Box 1188, Great Falls, Mont. (B)
Underseeth, Theo, 800 Breckenridge, Helena,
Mont. (B)

26. NEBRASKA

**(a) NEBRASKA BUILDING
CHAPTER**

**President—Simon Korshoj, Korshoj
Constr. Co., Blair, Nebr.**
**Secretary—Virgil J. Haggart, 1130 1st
Natl. Bk. Bldg., Omaha 2, Nebr.**
Telephone: Jackson 1196

Assenmacher, W. J., Co., P. O. Box 246, Lin-
coln, Nebr. (B)
Beckenhauer Bros., 1408 Norfolk Ave., Nor-
folk, Nebr. (B)
Borchman, A., Sons, 4601 Douglas St., Omaha
3, Nebr. (B)
Claussen, John, & Sons, 803 S. Clark St.,
Grand Island, Nebr. (B)
Cooper Constr. Co., 146 S. 46th St., Omaha,
Nebr. (B)
Foster-Smetana Co., 4360 Nicholas St., Omaha
3, Nebr. (B)
Fricke, H. C., Box 185, Alliance, Nebr. (B)
Fullen Constr. Co., P. O. Box 69, Scotts-
bluff, Nebr. (B-H)
Geer-Maurer Constr. Co., 315 N. Oak, Grand
Island, Nebr. (B)
Gilmore, E. E., Co., 1207 N. 11th St., Omaha,
Nebr. (B)
Jones, W. Boyd, Co., 111 S. 40th St., Omaha,
Nebr. (B)
Kaufman, J. E., 2716 9th Ave., Kearney,
Nebr. (B-Hvy)
Kealy Constr. Co., 1300 E. 7th St., Hastings,
Nebr. (B)
Kiewit, Peter, Sons' Co., 1024 Omaha Natl.
Bk. Bldg., Omaha 2, Nebr. (B)
Kingery Constr. Co., 1941 Y St., Box 1723,
Lincoln, Nebr. (B)
Korshoj Constr. Co., Blair, Nebr. (B-H)
Lien, Chris S., Co., Holdrege, Nebr. (B)
Lof, John, & Sons, 4012 Lake St., Omaha,
Nebr. (B)
Lueder Constr. Co., 601 Redick Tower Bldg.,
Omaha, Nebr. (B)

Miller Excavating Co., 5022 Center St.,
Omaha 6, Nebr. (B-Hvy)
Olson Constr. Co., 410 S. 7th St., Lincoln 8,
Nebr. (B-H)
Parsons Constr. Co., 512 Grain Exch. Bldg.,
Omaha, Nebr. (B)
Rorick Constr. Co., 905 S. 20, Omaha 2, Nebr.
(B)
Sothman Constr. Co., Grand Island, Nebr.
(B)
Webber, Fred H., 4157 N. 44th St., Omaha,
Nebr. (B)
Westcott-Bowen Constr. Co., 1400 Sunburst
Lane, Lincoln, Nebr. (B-Hvy)
Wilson Constr. Co., 535 J St., Box 2046,
Lincoln 1, Nebr. (B)

(b) NEBRASKA CHAPTER

**President—L. C. Curtis, Lyman Richey
Sand & Gravel Corp., 750 Omaha
Natl. Bk. Bldg., Omaha 2, Nebr.**
**Engineer-Secretary—Milburn D. John-
son, 420 Federal Securities Bldg.,
Lincoln 8, Nebr.**
Telephone: 2-6210

Abel Constr. Co., Box 268, 895 N. 16th St.,
Lincoln 1, Nebr. (H-RR)
Ace Constr. Co., 2110 S. 55th St., Omaha,
Nebr. (B-H-Hvy-RR)
Behrens Constr. Co., 909 N. 6th, Beatrice,
Nebr. (H)
Berggren, Harry F., & Sons, Inc., Box 64,
Scottsbluff, Nebr. (H-Hvy)
Biba, W. A., Engr. Co., Geneva, Nebr. (H)
Bushman Constr. Co., Box 107, St. Joseph,
Mo. (H)
Christensen Sand & Gravel Co., Stephens
Natl. Bk. Bldg., Fremont, Nebr. (H)
Claussen-Olson-Benner, Inc., 501 West Ave.,
Holdrege, Nebr. (H-Hvy)
Concrete Materials & Constr. Co., 405 Granby
Bldg., Cedar Rapids, Iowa (H)
Condon-Cunningham Company, 4229 Lafay-
ette Ave., Omaha 3, Nebr. (H-Hvy)
De Long, C. L., Nebraska City, Nebr. (Hvy)
Dobson Bros. Constr. Co., 512 1st Natl. Bk.
Bldg., Lincoln, Nebr. (H-Hvy)
Dobson & Robinson, 824 1st Natl. Bk. Bldg.,
Lincoln 8, Nebr. (H-Hvy)
Dugdale Constr. Co., 1331 S. 20th St., Omaha,
Nebr. (B-H-Hvy)
Gerhold Co., Columbus, Nebr. (H)
Green, Ralph, & W. L. Groesbeck, 1020 N.
14th St., Lincoln, Nebr. (H)
Grosshans & Petersen, Marysville, Kans. (H-
RR)
Harlan Constr. Co., Republican City, Nebr.
(Hvy)
Inland Constr. Co., 3867 Leavenworth St.,
Omaha 5, Nebr. (H-Hvy)
Johnson, H. W., Dakota Ave., So., P. O. Box
232, South Sioux City, Nebr. (H)
Keim Constr. Co., Tecumseh, Nebr. (H)
Kiewit, Peter, Sons' Co., 1024 Omaha Natl.
Bk. Bldg., Omaha 2, Nebr. (B-H-Hvy)
Kirk, R. V., Gibbon, Nebr. (H)
Lee & Johnson, 220 Insurance Exch. Bldg.,
Sioux City 13, Iowa (H)
Lyman Richey Sand & Gravel Corp., 750
Omaha Natl. Bk. Bldg., Omaha 2, Nebr.
(H)

A.G.C. DIRECTORY

NEBRASKA—Continued

Lynn, W. A., Constr. Co., 1022 Trust Bldg., Lincoln, Nebr. (Hvy)
 McMullen Co., The, 503 Sharp Bldg., Lincoln, Nebr. (H)
 Millis, Ray, 736 Keeline Bldg., Omaha, Nebr. (H)
 Monarch Engr. Co., Falls City, Nebr. (H-Hvy)
 National Constr. Co., 1335 S. 20th St., Omaha 2, Nebr. (H)
 Nichols Constr. Co., Geneva, Nebr. (H)
 Norfolk Bridge & Constr. Co., 300 N. 7th St., Norfolk, Nebr. (H-Hvy)
 Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
 Omaha Dredge & Dock Co., 808 Douglas St., Omaha 8, Nebr. (Hvy)
 Orshek, Francis R., Co., 515 Stephens Natl. Bk. Bldg., Fremont, Nebr. (B-H)
 Overland Sand & Gravel Co., Stromsburg, Nebr. (H)
 Platte Valley Constr. Co., 900 S. Adams St., P. O. Box 595, Grand Island, Nebr. (H-Hvy-RR)
 Read, A. H., Co., 706 W. 19th St., Cheyenne, Wyo. (H-Hvy)
 Rentlor Co., Inc., P. O. Box 655, Grand Island, Nebr. (B-H-Hvy)
 Risk Pipe & Constr. Co., Nebraska City, Nebr. (H-Hvy)
 Roberts Constr. Co., 1018 Trust Bldg., Lincoln, Nebr. (H)
 San-Ore Constr. Co., McPherson, Kans. (H)
 Sawyer, Paul, Sand & Gravel Co., Holdrege, Nebr. (H)
 Steele Bros., Dorchester, Nebr. (H)
 Swanson, Arnold, & Co., P. O. Box 133, Hastings, Nebr. (B-H-Hvy)
 Theisen Bros., Osmond, Nebr. (H)
 Weidner & King, Fremont, Nebr. (B-H-Hvy)
 Werner, Geo. K., & Son, Clay Center, Nebr. (H)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)
 Yant Constr. Co., 917 N. 45th St., Omaha 3, Nebr. (H-Hvy)

27. NEVADA

(a) NEVADA CHAPTER

President—Earl E. Games, 1380 Humboldt Ave., Reno, Nev.
Secretary-Manager—Edward L. Pine, Center & E. 2d Sts., P. O. Box 478, Reno, Nev.
Telephone: Reno 23525

Belli, E., 900 Thoma St., Reno, Nev. (B)
 Boudwin, Walker, Constr. Co., 311 N. Park St., Reno, Nev. (B)
 Brock, M. J., & Sons, Inc., 150 N. Center St., Reno, Nev. (B-H-Hvy)
 Dieterich, Clarence, Co., 122 Rock St., Reno, Nev. (H-Hvy)
 Dodge Constr., Inc., Fallon, Nev. (H-Hvy)
 Games, Earl E., 1380 Humboldt Ave., Reno, Nev. (H-Hvy)
 Isbell Constr. Co., Inc., S. Virginia Rd., P. O. Box 2351, Reno, Nev. (H-Hvy)
 Manuel, Paul, P. O. Box 358, Reno, Nev. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

Miller, Geo. E., Box 1728, Reno, Nev. (H-Hvy)
 Nelson, Wendell E., 717 W. Williams Ave., Fallon, Nev. (B)
 Parker, H. Earl, Inc., 531 12th St., Marysville, Calif. (H-Hvy)
 Ready-Mix Concrete Co., P. O. Box 1408, Reno, Nev. (B-H-Hvy)
 Roberts, John H. C., 253 E. Taylor St., Reno, Nev. (B)
 Schilling, G. E., Engr. & Constr. Co., Inc., 201 Sunnyside Dr., Reno, Nev. (H-Hvy)
 Silver State Constr. Co., Inc., Fallon, Nev. (H-Hvy)
 Wells Cargo, Inc., P. O. Box 1511, 1800 E. 4th St., Reno, Nev. (H-Hvy)
 Westbrook & Pope, 2331 Fair Oaks Blvd., Rt. 9, Box 841, Sacramento 16, Calif. (B-H-Hvy-RR)
 Wiechmann & Probasco, Inc., 320 Professional Bldg., Reno, Nev. (B)

(b) SOUTHERN NEVADA BUILDERS CHAPTER

President—Richard Chase, Lembke Constr. Co., P. O. Box 1391, Las Vegas, Nev.
Secretary—Stanley F. Wanamaker, Superior Constr. Co., P. O. Box 1551, Las Vegas, Nev.
Telephone: 4838

Davey, Ben O., P. O. Box 1625, Las Vegas, Nev. (B)
 Desert Constr. Co., 207 Bridger St., Las Vegas, Nev. (B)
 Frontier Bldrs., Box 1093, Las Vegas, Nev. (B)
 Lembke Constr. Co., 16th & Charleston, Box 1391, Las Vegas, Nev. (B)
 Miller, Haynes, Smith, Inc., Box 1, Henderson, Nev. (B)
 Nevada Constr. Co., Inc., 421 Bonanza Rd., Box 2104, Las Vegas, Nev. (B)
 Pioneer Constr. Corp., P. O. Box 2111, Las Vegas, Nev. (B)
 Shelton Mill & Constr. Co., Box 2046, Las Vegas, Nev. (B)
 Stocks Mill & Supply Co., 750 Fremont, Las Vegas, Nev. (B)
 Superior Constr. Co., Box 1551, Las Vegas, Nev. (B)
 Tee Constr. Co., 343 N. 10th St., Las Vegas, Nev. (B)
 Tiberti, J. A., Constr. Co., 1233 Comstock, P. O. Box 29, Las Vegas, Nev. (B)

28. NEW HAMPSHIRE

(a) ASSOCIATED GENERAL CONTRACTORS OF NEW HAMPSHIRE

President—Parker H. Rice, Manchester Sand, Gravel & Cement Co., Inc., 839 Elm St., Manchester, N. H.
Secretary—John Jacobson, Jr., Davison Constr. Co., 1306-A Elm St., Manchester, N. H.
Telephone: 5-5741

Bedders, Wm. E., Brookline, N. H. (H)
 Bisson, W. M., & Son, 28 Riverside Ct., Laconia, N. H. (B)

Curran, Kenneth E., Inc., Littleton, N. H. (H-Hvy)
 Davison Constr. Co., 1306-A Elm St., Manchester, N. H. (B)
 Davison, David W., 449 Hayward St., Manchester, N. H. (B)
 Ferguson, W. C., Keene, N. H. (Hvy)
 Foster & Bamford, Inc., 18 N. Main St., Concord, N. H. (B)
 Garon Constr. Co., Inc., 623 Clay St., Manchester, N. H. (B)
 Hartford, R. R., Inc., 48 S. Willow St., Manchester, N. H. (H-Hvy)
 Harvey Constr. Co., Inc., 450 Valley St., Manchester, N. H. (B)
 Keyser, Leon, Co., 61 Beech St., Manchester, N. H. (B)
 MacMillin Co., The, 17 Main St., Keene, N. H. (B)
 Manchester Sand, Gravel & Cement Co., Inc., 839 Elm St., Manchester, N. H. (H-Hvy)
 Paquette Constr. Co., 132 Bridge St., Manchester, N. H. (B)
 Robie Constr. Co., Inc., Pike Ave., Manchester, N. H. (B)
 Ross, Jas., Assos., Inc., 102½ N. Main St., Concord, N. H. (B)
 Shattuck, L. H., Inc., 449 Hayward St., Manchester, N. H. (B)
 Stebbins, Blanchard, 324 Lincoln St., Manchester, N. H. (B)
 Swanburg Constr. Corp., 61 Amherst St., Manchester, N. H. (B)
 Swett, E. D., Winchester, N. H. (H)
 Trumbull-Nelson Co., Inc., 11 Lebanon St., Hanover, N. H. (B)
 Viette, Jas. J., Littleton, N. H. (B)
 Weaver Bros. Constr. Co., 259 S. Main St., Concord, N. H. (H)
 Whitcomb, Arthur, Constr. Co., Inc., 725 Main St., Keene, N. H. (H)
 Whitcomb, Frank W., Constr. Corp., North Walpole, N. H. (H-Hvy)

29. NEW JERSEY

(a) ASSOCIATED GENERAL CONTRACTORS OF NEW JERSEY

President—J. B. Mathews, S. J. Groves & Sons Co., Woodbridge, N. J.
General Manager—Hugh J. Connelly, 52 W. State St., Trenton 8, N. J.
Telephone: Trenton 5-6109

Accchione Contr. Co., 1607-9 McKean St., Philadelphia, Pa. (H-Hvy)
 Agabiti Bros., Inc., 125 Swan St., Trenton, N. J. (H-Hvy)
 American Paving Corp., Foot of Bessemer St., Newark, N. J. (H)
 Atlantic County Constr. Co., Virginia & Mediterranean Aves., Atlantic City, N. J. (H-RR)
 Bancheri, Chas., 227 Central Ave., Hammon-ton, N. J. (H-Hvy)
 Barrett, Albert E., 530 New York Ave., Trenton 9, N. J. (H)
 Braen's, Samuel, Sons, Goffle Rd., Hawthorne, N. J. (H)
 Brann & Stuart Co., 771 Broad St. Sta. Bldg., Philadelphia 2, Pa. (B-H-Hvy-RR)

NEW JERSEY—Continued

Brewster, Geo. M., & Son, Inc., 275 Ft. Lee Rd., Bogota, N. J. (B-H-Hvy)
 Brookfield Constr. Co., Inc., 521 5th Ave., New York 17, N. Y. (Hvy)
 Bugbee, Newton A. K., & Co., Oakland St. & Norman Ave., Trenton 8, N. J. (B-H-Hvy)
 Burns, J. P., Box 91, Dumont, N. J. (H-Hvy)
 C & T Constr. Co., 209 Burrwood Ave., Box 12, Collingswood, N. J. (H-Hvy)
 Campanella, Edw. P., 121 S. White Horse Pike, Hammonton, N. J. (H)
 Canuso, Francis A., & Son, 804 S. 12th St., Philadelphia, Pa. (H-Hvy)
 Cayuga Foundation Corp., The Underwood Bldg., 30 Vesey St., New York 7, N. Y. (H-Hvy-RR)
 Chapman, J. F., & Son, Inc., 1439 N. Broad St., Hillside, N. J. (B)
 Construction Aggregates Corp., 1 E. 42d St., New York, N. Y. (H)
 Construction Service Co., Lincoln Blvd., P. O. Box 311, Bound Brook, N. J. (Hvy)
 Cox, P. T., Constr. Co., Inc., 270 Broadway, New York 7, N. Y. (H-Hvy)
 Cunningham, A. J., & Sons, 370 Newkirk Ave., Trenton, N. J. (H-Hvy)
 Delta Constr. Co., National Bk. Bldg., Hopewell, N. J. (H)
 Eames Tree Expert Co., Box 468, Plainfield, N. J. (Hvy)
 Ell-Dorer Contr. Co., 644 Nye Ave., Irvington, N. J. (B-H-Hvy)
 Ellis, A. J., Constr. Co., Inc., 4th & Courtland Sts., Philadelphia 40, Pa. (H-Hvy-RR)
 Ellis, Edw. H., & Sons, Inc., Rt. 40, Harvard Ave., Merchantville 10, N. J. (H-Hvy)
 Erie Contr. & Engr. Corp., Passaic Natl. Bk. Bldg., Passaic, N. J. (RR)
 Ferrante, Anthony, & Son, Inc., 33 Mt. Airy Rd., Bernardsville, N. J. (B-H)
 Ferry Constr. Co., 20 Boardwalk Arcade Bldg., Atlantic City, N. J. (Hvy)
 Fox, Delton T., 197 Irving Ave., Bridgeton, N. J. (B-H)
 Franklin Contr. Co., 12 Central Ave., Newark 2, N. J. (H-Hvy)
 Frapaul Constr. Co., Essex St., Box 188, Rochelle Park, N. J. (H-Hvy)
 Fritz, W. G., Co., Inc., 69 Main St., West Orange, N. J. (Hvy)
 Fusco, J. R., Inc., 20 Glenridge Ave., Montclair, N. J. (H)
 Gallo, Thos., 32 Woolsey St., Irvington, N. J. (H)
 Groves, S. J., & Sons Co., Rt. 35 at Port Reading RR., P. O. Box 485, Woodbridge, N. J. (H-Hvy)
 Hansen, Ole, & Sons, Inc., Pleasantville, N. J. (Hvy)
 Harrison, H. L., & Son, Inc., P. O. Box 240, Westfield, N. J. (H-Hvy)
 Hesse, Chas. J., Inc., Palmer St., Belford, N. J. (H)
 Holmes & English, 1465 Palisade Ave., West Englewood, N. J. (H-Hvy)
 Jaggard, R. B., Engr. Co., Highland Ave., Westmont, N. J. (H)
 Kaufman Constr. Co., Inc., 4000 Pulaski Ave., Philadelphia 40, Pa. (H)

Kolyn Constr. Co., 207 Commonwealth Bldg., P. O. Box 916, Trenton, N. J. (H-Hvy-RR)
 Lewis & Bowman, P. O. Box 743, Goldsboro, N. C. (H)
 Lewis & McDowell, Inc., 285 Madison Ave., New York, N. Y. (H-Hvy-RR)
 Lugano Bros., Inc., 172 Passaic Ave., Belleville 9, N. J. (H)
 Lupton, A. H., Jr., Cumberland Natl. Bk. Bldg., Bridgeton, N. J. (H)
 Mack Constr. Co., Inc., 101 Ocean St., Cape May, N. J. (B-H-Hvy)
 Malanka, C. F., & Sons, Inc., 1317 Bergenline Ave., Union City, N. J. (B-H-Hvy)
 Marsellis-Warner Corp., 10 Baldwin St., Montclair, N. J. (H)
 McGraw, Jas. Co., 1010 Commercial Trust Bldg., Philadelphia 2, Pa. (H-Hvy-RR)
 McGreevey, John F., & Co., Inc., 141 N. Main St., Manasquan, N. J. (H)
 Morehouse, E. R. Co., 1400 Pine St., Camden, N. J. (H-Hvy-RR)
 Napp-Greco Co., The, 241 Riverside Ave., Newark 4, N. J. (H-Hvy-RR)
 Nesto Constr. Co., 100 Riverside Ave., Newark 4, N. J. (H)
 New Jersey Asphalt & Paving Co., Foot of Howell St., Jersey City, N. J. (H-Hvy)
 Nicol, Thos., & Co., 387 Green Grove Rd., Neptune, N. J. (H)
 Pangia Constr. Co., White Horse Pike, Atco, N. J. (H)
 Perelli Contr. Co., Inc., 1633 Hamilton Ave., Trenton 9, N. J. (H)
 Poirier & McLane Corp., 33 W. 42d St., New York 18, N. Y. (Hvy)
 Reid Contr. Co., Inc., P. O. Box 500, Woodbridge, N. J. (H)
 Road Contr. Co. of Westfield, 714 Central Ave., Westfield, N. J. (H)
 Rogers, Jos. W., Succasunna, N. J. (H-Hvy)
 Salmon Bros., Inc., Netcong, N. J. (H-Hvy)
 Sappah, M., & Sons, Inc., 11 Kinderkamack Rd., Montvale, N. J. (H-Hvy)
 Senior and Palmer, Inc., 50 Church St., New York 7, N. Y. (Hvy-RR)
 Standard Bitulithic Co., Foot of Brill St. & Passaic River, Newark 5, N. J. (H)
 Stone, Arthur E., Doughty Rd. & Reading R. R., Pleasantville, N. J. (H)
 Tidewater Construction Corporation, P. O. Box 57, Norfolk, Va. (B-H-Hvy-RR)
 Union Bldg. & Constr. Corp., P. O. Box 58, Passaic, N. J. (H-Hvy)
 Union Paving Co., 1227 N. Broad St., Philadelphia, Pa. (H-Hvy)
 Utility Constr. Co., 84 Paterson St., New Brunswick, N. J. (H-Hvy)
 Verga, Eugene F., Inc., 130 N. Broadway, Camden, N. J. (H-Hvy-RR)
 Versaggi Bros. Constr. Co., Wildwood, N. J. (H-Hvy)
 Villa Contr. Co., Inc., P. O. Box 149, Westfield, N. J. (H-Hvy)
 Villard Contr., Inc., 25 Main St., Hastings-on-Hudson, N. Y. (B-H-Hvy-RR)
 Waters, John N., 209 Park Pl., Audubon, N. J. (H-Hvy-RR)
 Weldon Contr. Co., 113 Central Ave., Westfield, N. J. (B-H)
 Whitmyer Bros., R.F.D. 3, Hammonton, N. J. (H)

Willis Constr., Branchville, Sussex Co., N. J. (H)
 Zimmerman, Louis, Jr., 285 Florence Ave., Hillside 5, N. J. (B)
 Ziobro, Stanley J., Inc., 39 Lackawanna Plaza, Bloomfield, N. J. (H-Hvy)

Local Members

Becker Constr. Co., 361 Grove St., Newark 3, N. J. (B)
 Blanchard, Wm. L., Co., 45 Poinier St., Newark 5, N. J. (B)
 Briscoe, Frank, Co., Inc., 287 S. 19th St., Newark 3, N. J. (B)
 Brotherton, Fred J., Inc., 185 Atlantic St., Hackensack, N. J. (B)
 Douglas, Damon G., Co., 605 Broad St., Newark 2, N. J. (B)
 Jantelle, P., Inc., 571 S. 10th St., Newark 3, N. J. (B)
 LaFountain, A. A., Inc., 161 Beech St., Hackensack, N. J. (B)
 Lucarelli, B. J., & Co., Inc., 22 Orchard St., Jersey City, N. J. (B)
 Mahony-Troast Constr. Co., Inc., 657 Main Ave., Passaic, N. J. (B)
 Markland, M. B., Contracting Co., Boardwalk Arcade Bldg., Atlantic City, N. J. (B-Hvy-RR)
 Matthews Construction Company, 296 Alexander St., Princeton, N. J. (B)
 Salmond, Scrimshaw Constr. Co., 526 Elm St., Arlington, N. J. (B)
 Waldron, Edward M., Incorporated, 42 Park Pl., Newark 2, N. J. (B)
 Wigton-Abbott Corporation, 1225 South Ave., Plainfield, N. J. (B)

30. NEW MEXICO

(a) ASSOCIATED CONSTRUCTORS OF NEW MEXICO

President—M. J. Wylie, Wylie Bros., 1009 N. 3d St., Albuquerque, N. Mex.
Manager—L. W. Cantelou, 205 E. Palace Ave., P. O. Box 1693, Santa Fe, N. Mex.
Telephone: 333
 Allison & Haney, P. O. Box 1507, Albuquerque, N. Mex. (H-Hvy)
 Armstrong & Armstrong, Box 873, Roswell, N. Mex. (H)
 Bookout, W. T., Constr. Co., P. O. Box 298, Las Vegas, N. Mex. (H)
 Brown Contr. Co., P. O. Box 1479, Albuquerque, N. Mex. (H)
 Burn, P. R., P. O. Box 1111, Las Cruces, N. Mex. (H)
 Davis, Floyd, 207 Springer Bldg., Albuquerque, N. Mex. (H)
 Denison, Walter L., 422 S. Solano, Albuquerque, N. Mex. (H)
 Haake, Floyd, 1201 Sierra Vista, Santa Fe, N. Mex. (H)
 Isbell Constr. Co., Inc., P. O. Box 2351, Reno, Nev. (H)
 Lowdermilk Bros., P. O. Box 276, Espanola, N. Mex. (H)
 Martin, G. L., 520 S. Tulane, Albuquerque, N. Mex. (H)
 Miller & Smith, P. O. Box 6007, Sta. B, Albuquerque, N. Mex. (H)

A.G.C. DIRECTORY

NEW MEXICO—Continued

Ryan, J. H., P. O. Box 513, Albuquerque, N. Mex. (H-Hvy)
 Sharp & Fellows Contr. Co., 533 Central Bldg., Los Angeles 14, Calif. (H-Hvy)
 Silver, E. M., P. O. Box 1062, Albuquerque, N. Mex. (H)
 Skousen, D. D., 201 Springer Bldg., Albuquerque, N. Mex. (H)
 Skousen-Hise Contr. Co., 201 Springer Bldg., Albuquerque, N. Mex. (H)
 Spencer & Co., P. O. Box 350, Sena Plaza, Santa Fe, N. Mex. (H)
 Thygesen, Henry, & Co., P. O. Box 876, Albuquerque, N. Mex. (H)
 Wheeler & Troitz, 2129 E. Lead Ave., Albuquerque, N. Mex. (H)
 Wylie Bros., 1009 N. 3d St., Albuquerque, N. Mex. (H)

(b) ASSOCIATED BUILDING CONTRACTORS OF NEW MEXICO

President—J. R. Brennand, % Robt. E. McKee, P. O. Box 1706, Santa Fe, N. Mex.
 Manager—Alva J. Coats, 224 N. Montclair Ave., P. O. Box 426, Albuquerque, N. Mex.
 Telephone: 5-2736

Bell-Erhard & Co., Box 228, Clovis, N. Mex. (B)
 Bradbury, O. G., 1217 N. 1st St., P. O. 1628, Albuquerque, N. Mex. (B)
 Brunetta, Dan, 802 W. Aztec, Box 68, Gallup, N. Mex. (B)
 Clough & King Constr. Co., 924½ N. 11th, Albuquerque, N. Mex. (B)
 Cooper, W. M., 607 E. Palace Ave., Santa Fe, N. Mex. (B)
 Cottle, L. W., Box 831, Clovis, N. Mex. (B)
 Craftsmen Constr. Co., Inc., The, 750 Cerrillos Rd., Santa Fe, N. Mex. (B)
 Daum, R. J., Constr. Co., 400 S. Wyoming St., P. O. Box 233, Albuquerque, N. Mex. (B)
 Gilchrist Constr. Co., P. O. Box 868, Las Cruces, N. Mex. (B)
 Griggs, Raymond, 217 Connelly, Clovis, N. Mex. (B)
 Haddock Engrs., Ltd., P. O. Box 409, Los Alamos, N. Mex. (B-H-Hvy-RR)
 House, K. L., Constr. Co., Inc., 214 E. Marquette, P. O. Box 755, Albuquerque, N. Mex. (B)
 Hughes, H. D., 405 N. Virginia Ave., Roswell, N. Mex. (B)
 Kiewit, Peter, Sons' Co., P. O. Box 963, Albuquerque, N. Mex. (B-H-Hvy-RR)
 Kirk, S. L., P. O. Box 1230, Santa Fe, N. Mex. (B)
 Leftwich, J. D., Contrs., Inc., P. O. Box 4091, Sta. A, Albuquerque, N. Mex. (B)
 Lembke Constr. Co., P. O. Box 144, Albuquerque, N. Mex. (B)
 Lineberry Bldg. Contrs., 227 Anita Pl., Santa Fe, N. Mex. (B)
 Mauldin, L. M., Constr. Co., 600 S. Oak, P. O. Box 347, Albuquerque, N. Mex. (B)
 McKee, Robt. E., P. O. Box 1706, Santa Fe, N. Mex. (B)

Patrick, S. V., Constr. Co., 317 E. Marquette, P. O. Box 751, Albuquerque, N. Mex. (B)
 Roach Constr. Co., 817 N. Carlisle Ave., Albuquerque, N. Mex. (B)
 Rutherford, Geo. A., Jr., 915 E. Hazeldine Ave., Box 771, Albuquerque, N. Mex. (B)
 Ryan Constr. Co., P. O. Box 1616, Kermit, Texas (B)
 S & W Constr. Co., Inc., 131 E. Las Cruces, P. O. Box 311, Las Cruces, N. Mex. (B)
 Testman, John T., 2443 Floral Dr., Albuquerque, N. Mex. (B)
 Utah Constr. Co. & C. H. Leavell & Co., P. O. Box 341, Los Alamos, N. Mex. (B-Hvy)
 Valley Bldg. Co., 131 W. Walnut St., Roswell, N. Mex. (B)
 Vasey Constr. Co., 910 N. Alameda St., Carlsbad, N. Mex. (B)
 Via, H. H., P. O. Box 898, Santa Fe, N. Mex. (B)
 Whitmore, S. E., 3612 E. Silver Ave., Albuquerque, N. Mex. (B)

31. NEW YORK

(a) BUFFALO CHAPTER

President—Park L. Metzger, Metzger Constr. Corp., 429 Carlton St., Buffalo 11, N. Y.
 Secretary—Richard C. O'Keefe, 518 Prudential Bldg., Buffalo 2, N. Y.
 Telephone: Washington 2340

Bremer, C. C., & Co., 2576 Seneca Ave., Niagara Falls, N. Y. (B)
 Cowper, John W., Co., Inc., The, 405 Sidway Bldg., Buffalo 3, N. Y. (B)
 Darling, Herbert F., 131 California Dr., Williamsburg 21, N. Y. (Hvy)
 Guenther, Gaylord S., & Co., Inc., 611 8th St., Niagara Falls, N. Y. (B)
 Hendrich, W. F., Co., Inc., The, 775 Main St., Buffalo 3, N. Y. (B)
 International Chimney Corp., 301-303 Curtiss Bldg., Buffalo 2, N. Y. (B)
 Johnson, Walter S., Bldg. Co., Inc., Hyde Park Blvd., Niagara Falls, N. Y. (B)
 Laur & Mack Contr. Co., Inc., P. O. Box 563, Niagara Falls, N. Y. (B)
 Metzger Constr. Corp., 429 Carlton St., Buffalo 11, N. Y. (B-Hvy)
 Scufari Constr. Co., Inc., 3925 Hyde Park Blvd., Niagara Falls, N. Y. (B)
 Shirley-Herman Co., Inc., 1807 Elmwood Ave., Buffalo 7, N. Y. (B)
 Stimm, H. F., Inc., 693 Ellicott Sq. Bldg., Buffalo, N. Y. (B-Hvy-RR)
 Walker, Geo. W., & Sons, Inc., 770 Elmwood Ave., Buffalo 9, N. Y. (B)
 Wright & Kremers, Inc., Pine Ave. & Main St., Niagara Falls, N. Y. (B)

(c) METROPOLITAN BUILDERS ASSOCIATION OF NEW YORK CITY

President—A. E. Budell, Industrial Engr. Co., 50 Church St., New York City 7
 Secretary-Treasurer—W. J. Barney, Jr., W. J. Barney Corp., 101 Park Ave., New York City 17
 Telephone: Lexington 2-2720
 Barney, W. J., Corp., 101 Park Ave., New York City 17 (B)

Barr & Barr, Inc., 145 E. 32d St., New York City 16 (B)
 Brady, John T., & Co., Inc., 606 W. 47th St., New York City 19 (B)
 Caye Constr. Co., Inc., 356 Fulton St., Brooklyn 1, N. Y. (B)
 Corning, Edw., Co., 204 E. 39th St., New York City 16 (B)
 Crawford, Wm., Inc., 7 E. 42d St., New York City 17 (B)
 Crow, Wm. L., Constr. Co., 101 Park Ave., New York City 17 (B)
 Driscoll, Geo. F., Co., 41 E. 42d St., New York City 17 (B)
 Eisele, John H., Co., Inc., 18 E. 41st St., New York City 17 (B)
 Fuller, Geo. A., Company, Fuller Bldg., 597 Madison Ave., New York City 22 (B)
 Grove Shepherd Wilson & Kruege, Inc., 247 Park Ave., New York City 17 (B)
 Hegeman-Harris Co., Inc., 331 Madison Ave., New York City 17 (B)
 Industrial Engr. Co., 50 Church St., New York City 7 (B)
 Kennedy, John, & Co., 205 E. 42d St., New York City 17 (B)
 Kidde, Walter, Constrs., Inc., 140 Cedar St., New York City 6 (B)
 Lowry, John, Inc., 52 Vanderbilt Ave., New York City 17 (B)
 Nicholson Co., Inc., The, 10 Rockefeller Plaza, New York City 20 (B)
 Psaty & Fuhrman, Inc., 369 Lexington Ave., New York City 17 (B)
 Rhinestein Constr. Co., Inc., 21 E. 40th St., New York City 17 (B)
 Ryan Contr. Corp., 341 E. 79th St., New York City 21 (B-Hvy)
 Stewart, James, & Co., Inc., 230 Park Ave., New York City 17 (B)
 Thompson-Starrett Co., Inc., 444 Madison Ave., New York City 22 (B)
 Turner Construction Co., Graybar Bldg., 420 Lexington Ave., New York City 17 (B)
 Vermilya-Brown Company, Inc., 100 E. 42d St., New York City 17 (B)
 White Constr. Co., Inc., 95 Madison Ave., New York City 16 (B)

(d) NEW YORK STATE CHAPTER, INC.

President—Roscoe C. Holmes, Holmes & Murphy, Orchard Park, N. Y.
 Managing Director—William M. Lees, DeWitt Clinton Hotel, Albany 7, N. Y.
 Telephone: 3-2486
 Addazio Contr. Co., Inc., Oyster Bay, Long Island, N. Y. (H)
 Arborio, John, Inc., W. Cedar St., Poughkeepsie, N. Y. (H)
 Arute Bros., Inc., 560 S. Main St., New Britain, Conn. (H)
 Arzani, Victor C., Contr. Co., 2507 James St., Syracuse, N. Y. (H)
 Asphalt Roadways Co., 1766 Main St., Buffalo, N. Y. (H)
 Baughman & Blair, Rt. 246, E. Henrietta Rd., Rochester 7, N. Y. (H)
 Bellardino, John, Inc., Canal St., Seneca Falls, N. Y. (H)
 Belmar Co., 406-7 Proctor Bldg., Troy, N. Y. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

NEW YORK—Continued

Bero Engr. & Constr. Corp., 305 McKinley Bldg., 259 Delaware Ave., Buffalo 2, N. Y. (H)
 Bianchi, Carlo, & Co., Inc., 24 Union Ave., Framingham, Mass. (H-Hvy-RR)
 Binghamton Constr. Co., Inc., Marine Midland Bldg., Binghamton, N. Y. (H-Hvy)
 Blades, A. L., & Sons, 42 Broadway, Hornell, N. Y. (H)
 Bunce, H. E., Box 270, Waverly, N. Y. (H)
 Cable Guide Rail Constr. Co., 21-23 Gould Ave., Depew, N. Y. (H)
 Cady, Wm. J., & Co., P. O. Box 434, Amsterdam, N. Y. (H)
 Christiana, Vernon, Jr., 605 Pleasant St., Utica, N. Y. (H)
 Circle Constr. Corp., Brockway Pl., White Plains, N. Y. (H)
 City Constr. Co., 640 Jay St., Utica 2, N. Y. (H)
 Cold Spring Constr. Co., 3 Jackson St., Akron, N. Y. (H-Hvy)
 Collins Bros., Mechanicville, N. Y. (H)
 Collins, Wm. L., 212 Main St., Hornell, N. Y. (H)
 Coluccio, Thos. F., & Sons, 228 S. Washington St., Rome, N. Y. (H)
 Corbisello, N. R., P. O. Box 45, Binghamton, N. Y. (H)
 County Asphalt, Inc., Tarrytown, N. Y. (H)
 Croissant, F. J., Antwerp, N. Y. (H)
 Dale Engr. Co., 404 Court St., Utica, N. Y. (H)
 Dan Bar Contr. Co., Inc., 220 Pulawski St., Syracuse, N. Y. (H)
 Davis Constr. Co., Charlotte Ave., Hicksville, N. Y. (B-H)
 DeLia, Elis G., & Co., Paris Rd., New Hartford, N. Y. (H)
 Depew Paving Co., Depew, N. Y. (H)
 Dougherty, A. L., Co., 403 Guaranty Bldg., Indianapolis 4, Ind. (H)
 Dutcher Constr. Corp., Queenstown, Md. (H)
 Eagle Contrs. of Utica, Inc., P. O. Box 324, Utica, N. Y. (H)
 Elmhurst Contr. Co., Inc., 53-09 97th Pl., Corona, L. I., N. Y. (H)
 Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, N. Y. (H)
 Foley, Robt. E., Constr. Corp., 43 Griswold St., Binghamton, N. Y. (H)
 Gessler Contr. Co., Inc., P. O. Box 12, Eastwood Sta., Syracuse, N. Y. (H)
 Good Roads Engr. & Contr. Co., Inc., Burns Ave., Wantagh, N. Y. (H-Hvy)
 Grandview Constr. Corp., The, 740 S. Fulton Ave., Mt. Vernon, N. Y. (H)
 Green Island Constr. Co., 594 Broadway, Watervliet, N. Y. (H)
 Greene, Wm. H., Westbury, N. Y. (H)
 Groves, S. J., & Sons Co., 19 Rector St., New York, N. Y. (H)
 Harrison & Burrows, Inc., 507 Summit Ave., Jersey City, N. J. (H)
 Harvey, John J., Co., 38 Campion Rd., New Hartford, N. Y. (H)
 Hendrickson Bros., Inc., 63 N. Central Ave., Valley Stream, N. Y. (H)
 Holmes & Murphy, Orchard Park, N. Y. (H)
 Hopkins, Richard, Co., Box 1025, Albany, N. Y. (H-Hvy-RR)
 Howes & Farrell, Inc., Box 85, Oneida, N. Y. (H)

Hubbell, O. W., Oneida St., New Hartford, N. Y. (H)
 Hudson River Constr. Co., 75 State St., Albany, N. Y. (H)
 Irwin, John, Contr. Co., Inc., The, P. O. Box 376, Lockport, N. Y. (H)
 J. B. C. Constr. Co., Inc., 10 Central Ave., Lancaster, N. Y. (H)
 Johns Bros. Constr. Co., Inc., 38 Hall St., Binghamton, N. Y. (H)
 Johnson, Drake & Piper, Inc., 86 Trinity Pl., New York 6, N. Y. (H)
 Kelleher Corp., 35 Walnut St., Turners Falls, Mass. (H)
 Kranz, M., Engr. & Constr. Co., 447 Ft. Washington Ave., New York 33, N. Y. (H)
 LaBarge Bros. Co., Inc., 355 Collidge Ave., Syracuse, N. Y. (H)
 Lane Constr. Corp., The, 37 Colony St., Meriden, Conn. (H)
 Law Bros. Co. & A. J. Leaf, 200 N. Main St., Herkimer, N. Y. (H)
 Lee, L. S., & Son, Oaks Corners, N. Y. (H)
 Lewis & McDowell, Inc., 285 Madison Ave., New York, N. Y. (H)
 Longhi, Louis, & Son, Box 580, Glens Falls, N. Y. (H)
 MacNamee, Daniel F., & Co., Inc., 271 North Ave., New Rochelle, N. Y. (H)
 Madison County Constr. Co., Inc., Madison, N. Y. (H)
 Maselli, N. D., Corp., The, 31 Tunaia Ave., Bloomfield, Conn. (H)
 Mauger-Smith, Inc., P. O. Box 207, Columbus, Ohio (H)
 Mayersohn, Louis, 36 State St., Albany, N. Y. (H-Hvy-RR)
 McLain Constr. Corp., 275 Mayville Ave., Buffalo, N. Y. (H)
 Meade & Holler Constr. Corp., 260 E. 161st St., New York 51, N. Y. (H)
 Mid-State Bldrs., Inc., 622 South St., Utica, N. Y. (H)
 Mohawk Paving Co., Box 653, Geneva, N. Y. (H)
 Moore, Harold B., Windham, N. Y. (H)
 Mullins, John M., Inc., 2364 Burdett Ave., Troy, N. Y. (H)
 Murray, C. D., Co., Inc., 701 Westcott St., Syracuse, N. Y. (H)
 Oneglia & Gervasini, P. O. Box 687, Torrington, Conn. (H)
 Ottaviano, A. E., Inc., 80 Brooks St., Croton-on-Hudson, N. Y. (H)
 Parisi Contr. Co., Inc., 33-27 127th St., Corona, L. I., N. Y. (H)
 Pariso Bros., 698 E. Ferry St., Buffalo, N. Y. (H)
 Parlor City Constr. Co., 30 Odell Ave., Endicott, N. Y. (H)
 Pasquale Constr. Co., 311 Cornell Ave., Endicott, N. Y. (H)
 Peckham Road Corp., 47 Mamaroneck Ave., White Plains, N. Y. (H)
 Potter-DeWitt Corp., Pavilion, N. Y. (H)
 Provo Bros., Inc., Corner Oswego & W. Hia-watha Blvd., Syracuse, N. Y. (H-Hvy)
 Riegel, A. V., Inc., 130 Oakley Ave., White Plains, N. Y. (H)
 Salina Constr. & Supply Co., Inc., 1207 Milton Ave., Syracuse, N. Y. (H)
 Savin, A. L., Constr. Co., East Hartford, Conn. (H)

Scullen, S. A., P. O. Box 362, Waterford, N. Y. (H-Hvy-RR)
 Serafini Constr. Co., Inc., R. D. 1, Conklin Rd., Binghamton, N. Y. (H)
 Smith, Ed., Engr. & Constr. Co., 209 Strathmore Dr., Syracuse, N. Y. (H)
 Strandberg, L. B., & Sons Co., Inc., 608 S. Dearborn St., Chicago 5, Ill. (H)
 Strong, "Les," Constr. Co., Box 28, Whitney Point, N. Y. (H)
 Suits, Harry J., Watkins Glen, N. Y. (H)
 Talarico Contr. Corp., Herkimer, N. Y. (H)
 Torpey, Michael J., Inc., 50-07 49th St., Woodside, N. Y. (H)
 Triple Cities Constr. Co., Inc., 17 Tompkins St., Binghamton, N. Y. (H)
 Tuckahoe Constr. Co., Inc., 116 Columbus Ave., Tuckahoe, N. Y. (H)
 Tully & Dinapoli, Inc., 30-11 12th St., Long Island City 2, N. Y. (H)
 Van Kleeck, Wm., New Paltz, N. Y. (H)
 Ward, C. P., Inc., 700 Hollenbeck St., Rochester, N. Y. (H)
 Warren Bros. Roads Co., 38 Memorial Dr., Cambridge, Mass. (H)
 Whitmore, C. B., Co., 36 Market St., Lockport, N. Y. (H)
 Wikstrom, A. S., P. O. Box 217, Skaneateles, N. Y. (H)
 Wilkes Contr. Corp., 1415 Niagara St., Buffalo, N. Y. (H)
 Winkelman, D. W., Co., Inc., 205 Harrison St., Syracuse 2, N. Y. (H)
 Zara Contr. Co., Inc., 15 Prospect Ave., Hewlett, L. I., N. Y. (H)

Local Members

Adirondack Construction Corporation, 179 Glen St., Glens Falls, N. Y. (B-Hvy)
 Barney, W. J., Corp., 101 Park Ave., New York 17, N. Y. (B)
 Brown, Thomas C., Company, Inc., P. O. Box 962, Schenectady, N. Y. (B-Hvy)
 Healy, S. A., Company, 61 Westchester Ave., White Plains, N. Y. (Hvy)
 Ruddy, Bart J., Inc., 1147 Mohawk St., Utica, N. Y. (B-H)
 Senior and Palmer, Inc., 50 Church St., New York 7, N. Y. (Hvy-RR)
 Spencer, White & Prentiss, Inc., 10 E. 40th St., New York, N. Y. (Hvy)
 Stanley, Walter A., Constr. Co., Inc., Railroad Ave., Ossining, N. Y. (B)

**32. NORTH CAROLINA
SOUTH CAROLINA**

(a) CAROLINAS BRANCH

President—N. K. Dickerson, Jr., Dickerson, Inc., P. O. Box 448, Monroe, N. C.
 Executive Secretary—Robert Patten, P. O. Box 1459, 405-9 Bldrs. Bldg., Charlotte 1, N. C.
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 Columbia Service Office, 212 Wade Hampton Hotel, Columbia, S. C.—Mrs. Margaret Ballenger, Secretary
 Greensboro Service Office, Rm. 9, Long Bldg., 115 Church St., Greensboro, N. C.—Miss Carolyn Owens, Secretary

CAROLINAS—Continued

Raleigh Service Office, 203 Carolina Hotel, Raleigh, N. C.—Miss Elizabeth Hayes, Secretary

- Alcott Constr. Co., 218 E. Hampton St., Sumter, S. C. (B)
- Alward, H. W., Inc., 161 Mt. Airy Rd., P. O. Box 926, Bernardsville, N. J. (H-Hvy)
- Ames & Webb, Inc., P. O. Box 4001, Broad Creek Village Sta., Norfolk 2, Va. & P. O. Box 1467, Raleigh, N. C. (H)
- Angle, Chas. W., Inc., Piedmont Bldg., P. O. Box 1739, Greensboro, N. C. (B)
- Asheville Contr. Co., P. O. Box 5119, Biltmore Sta., Asheville, N. C. (H)
- Ashmore Bros., Inc., Box 2084, Greenville, S. C. (H)
- Atlantic Bitulithic Co., 1400 Roseneath Rd., Richmond 21, Va. & P. O. Box 581, Winston-Salem, N. C. (H)
- Atlantic Bldg. Corp., 1735 Pinehurst Rd., P. O. Box 62, Columbia, S. C. (B)
- Bailey Constr. Co., 511 E. North St., Greenville, S. C. (B-Hvy)
- Baker, W. E., Constr., Box 909, Sprunt St., West Durham, N. C. (B)
- Ballenger Paving Co., Box 1046, Greenville, S. C. (H)
- Ballou Constr. Co., 1603 McMillan Ave., Lumberton, N. C. (B)
- Barger Constr. Co., Inc., Box 30, 222 N. Main St., Mooresville, N. C. (B)
- Barge-Thompson Co., 136 Ellis St., N. E., Atlanta 3, Ga. (B)
- Barnes, H. D., Inc., P. O. Box 2408, Greensboro, N. C. (B-Hvy)
- Barringer Bros., Box 50, Richfield, N. C. (H)
- Barrus Constr. Co., Box 395, 1st Citizens Bk. Bldg., Kinston, N. C. (H)
- Bartholomew, B. W., Piedmont Bldg., Charlotte 2, N. C. (B)
- Blankenship Bros., 2217 S. Tryon St., P. O. Box 3150, Dilworth Sta., Charlotte, N. C. (H-Hvy)
- Blum, Frank L., & Co., P. O. Box 2253, 860 W. 4½ St., Winston-Salem, N. C. (B)
- Blythe Bros. Co., 2911 Hutchinson Ave., P. O. Box 989, Charlotte 1, N. C. (B-Hvy)
- Blythe & Isenhour, Box 614, 133 Brevard Ct., Charlotte, N. C. (B)
- Bouligny, R. H., Inc., 433 W. Morehead St., P. O. Box 2115, Charlotte 1, N. C. (Hvy)
- Bowe Contr. Co., Inc., 540 Reynolds St., Augusta, Ga. (H)
- Bowers Constr. Co., 805 W. South St., P. O. Box 1706, Raleigh, & Whiteville, N. C. (H)
- Boyd & Goforth, Inc., Pineville Rd., Box 2072, Charlotte, N. C. (B-Hvy)
- Boyle Constr. Co., 30 E. Liberty St., P. O. Box 471, Sumter, S. C. (B-H-Hvy)
- Bradshaw, L. S., & Sons, P. O. Box 1099, Salisbury, N. C. (B-H)
- Brewer, N. E., Co., 8 W. 3d St., Box 2860, Winston-Salem, N. C. (Hvy)
- Bridges, E. C., Box 9, Heath Springs, S. C. (H-Hvy)
- Brinkley, W. F., & Son Constr. Co., Inc., Box 595, Granite Quarry, N. C. (H)
- Brissey Lumber Co., The, Box 782, Anderson, S. C. (B)
- Brown, O. L., Hamptonville, N. C. (B)
- Brown Paving Co., P. O. Box 484, Lexington, N. C. (H-Hvy)
- Bryan, J. N., & Son, 15 E. South St., Raleigh, N. C. (B)
- Builders, Inc., 1222 Elmwood Ave., P. O. Box 212, Columbia, S. C. (B)
- Bumgarner's Constr. Co., Rt. 1, Conover, N. C. (B)
- Burton, A. B., Co., Inc., Box 817, Lynchburg, Va. (H)
- Carolina Contr. Co., Inc., 1042 Adeline Rd., P. O. Box 5306, Columbia D, S. C. (H-Hvy)
- Carpenter, R. E., & Co., P. O. Box 851, Shelby, N. C. (B-Hvy)
- Carter, A. G., Jr., Box 421, Whiteville, N. C. (B)
- Cecil's, Inc. P. O. Box 1895, 290 W. Henry St., Spartanburg, S. C. (B)
- Chandler Bros., Inc., Box 5, Virgilina, Va. (H)
- Cherokee, Inc., P. O. Box 1296, Columbia, S. C. (H-Hvy)
- Clancy Constr. Co., 1918 Hillsboro St., Raleigh, N. C. (B)
- Clark Constr. Co., Greenville, N. C. (H-Hvy)
- Cleckley, J. F., & Co., P. O. Box 209, Orangeburg, S. C. (H)
- Cleckley & McGee, Inc., Orangeburg, S. C. (B)
- Cline, F. D., Constr. Co., P. O. Box 349, Raleigh, N. C. (H-Hvy)
- Coastal Constr., Inc., P. O. Box 1401, Wilmington, N. C. (H-Hvy)
- Coates Constr. Co., P. O. Box 443, Florence, S. C. (H-Hvy)
- Coble, H. L., Constr. Co., Inc., P. O. Box 2040, 1705 Battleground Ave., Greensboro, N. C. (B)
- Coe, J. L., Constr. Co., 508 Bldrs. Bldg., P. O. Box 1881, Charlotte, N. C. (B)
- Coffey, John W., & Son, P. O. Box 331, Raleigh, N. C. (B)
- Coggins Constr. Co., Inc., 305 Brooks Ave., Raleigh, N. C. (B)
- Cole & Crumpacker, 1914 Perry St., P. O. Box 38, West Durham, N. C. (B)
- Coltrane-Graham Constr. Co., 245 S. Hamilton St., P. O. Box 1767, High Point, N. C. (B)
- Congaree Constr. Co., 2103½ Blossom St., Columbia, S. C. (B)
- Conner, Frank H., Co., 711 S. Tryon St., P. O. Box 1031, Charlotte, N. C. (B)
- Cooper, S. E., P. O. Box 1631, Wilmington, N. C. (H)
- Coulter & Co., 813 Harden St., Columbia 5, S. C. (B)
- Cox, L. P., Co., 115 W. Main St., P. O. Box 188, Sanford, N. C. (B)
- Craig, John W., P. O. Box 6124, Charlotte, N. C. (B)
- Craig-Roberson Constr. Co., 1610 Westminster Dr., Columbia, S. C. (B)
- Crain & Denbo, Inc., P. O. Box 969, 205-8 Snow Bldg., Durham, N. C. (B)
- Creed, Geo. A., & Son, 1618 Sumter St., Columbia, S. C. (B)
- Cromer & Sullivan Constr. Co., 508 Fair St., Box 754, Anderson, S. C. (B)
- Crosby Constr. Co., Inc., P. O. Box 282, Union, S. C. (B-H-Hvy)
- Crosland Constr. Co., 1623 Harden St., Columbia 59, S. C. (B)
- Crouch, M. G., Lumber Co., P. O. Box 816, Hickory, N. C. (B)
- Crowder Constr. Co., Box 71, Charlotte, N. C. (H-Hvy)
- Dale, W. E., Constr. Co., P. O. Box 393, Morganton, N. C. (B)
- Daniel Constr. Co., Inc., P. O. Box 2286, Greenville, S. C. & Birmingham, Ala. (B)
- Darlington Constr. Co., Inc., W. Broad St., Box 52, Darlington, S. C. (B)
- Daughtridge Bldrs., 1100 S. Church St., Rocky Mount, N. C. (B)
- Davis, E. L., Co., P. O. Box 149, Beaufort, N. C. (B)
- Dickerson, Inc., P. O. Box 448, Monroe, N. C. (B-H-Hvy)
- Dixon Constr. Co., 1001-2 1st Citizens Bk. Bldg., P. O. Box 1048, Fayetteville, N. C. (B)
- Dotterer Engr. Co., 12 Exchange St., P. O. Box 495, Charleston, S. C. (B-Hvy)
- Durham Elec. Constr. Co., Inc., 113 Orange St., Durham, N. C. (Hvy)
- Eidson Constr. Co., Mocksville, N. C. (H)
- Elliott Bldg. Co., Box 400, Hickory, N. C. (B-Hvy)
- Elmore & Mackie Constr. Co., Box 78, Catawba, N. C. (B)
- Eure, N. F., Box 209, Beaufort, N. C. (B-H-Hvy)
- Evans Constr. Co., Box 350, Kinston, N. C. (B-Hvy)
- Fine, W. M., P. O. Box 26, Spartanburg, S. C. (B)
- Fiske-Carter Constr. Co. of S. C., P. O. Box 1251, 200 Dunbar St., Spartanburg, & P. O. Box 480, Masonic Temple, Greenville, S. C. (B-Hvy)
- Foard, Edison, 301 Price Bldg., Charlotte, N. C. (B)
- Foard, Ernest, 210 Piedmont Bldg., Charlotte 2, N. C. (B)
- Foster, W. A., Constr. Co., P. O. Box 1334, 1150 S. Main St., Burlington, N. C. (B)
- Fowler-Jones Constr. Co., 510 Reynolds Bldg., Winston-Salem 3, N. C. (B)
- Frye, R. L., RFD 3, Carthage, N. C. (B)
- Fulk & Needham, Pilot Mountain, N. C. (B)
- Fuller, W. A., & Sons, Box 257, Barnwell, S. C. (H)
- Gallant, C. W., Inc., 206 Latta Arcade, Charlotte, N. C. (H-Hvy)
- Gallimore, L. B., 508 Jackson St., P. O. Box 117, Greensboro, N. C. (B)
- General Constr. Co., 1815 Blanding St., Columbia, S. C. (B)
- General Contr. Co., 509 Peoples Bldg., Charleston, S. C. (B)
- General Engr. Corp., Box 1168, Florence, S. C. (B)
- Gibson, John H., 1112 Arnette Ave., P. O. Box 29, Durham, N. C. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

CAROLINAS—Continued

- Gilbert Engr. Co., Inc., Box 828, 638 S. Meeting St., Statesville, N. C. (B-H-Hvy)
 Glenn Constr. Co., P. O. Box 598, Charlotte, N. C. (H-Hvy)
 Godley-Hinnant, Inc., 715 S. 16th St., Box 1263, Wilmington, N. C. (B)
 Goode Constr. Corp., 201 Builders Bldg., P. O. Box 666, Charlotte, N. C. (B)
 Graham, W. E., & Sons, Box 268, Cleveland, N. C. (H)
 Grannis & Sloan, Inc., 1110½ Hay St., Drawer 3006, Fayetteville, N. C. (H)
 Gregory, J. M., P. O. Box 332, 706 Odd Fellows Bldg., Raleigh, N. C. (H-Hvy)
 Gregory & Poole, Inc., Box 721, 1106 Capitol Club Bldg., Raleigh, N. C. (H-Hvy)
 Grigg & Arthur Constr. Co., Inc., Box 1296, Reidsville, N. C. (B)
 Guest, C. M., & Sons, Box 829, Anderson, S. C. & Box J-1, Jefferson Standard Bldg., Greensboro, N. C. (B-Hvy)
 Guion, A. H., & Co., Box 1188, Wilkinson Blvd., Charlotte 1, N. C. (B-Hvy)
 Hait, C. M., & Son, 1325 E. 4th St., Charlotte, N. C. (B)
 Hand, W. H., & Son, Box 392, Belmont, N. C. (B)
 Hardaway Contr. Co., 2001 Taylor St., Columbia, S. C. & Box 1360, Columbus, Ga. (B-H-Hvy)
 Hardison, J. T., & Son, Box 166, Washington, N. C. (B)
 Harllee-Quattlebaum Constr. Co., 1301 W. Palmetto St., Florence, S. C. (B)
 Hawkins, Neal, P. O. Box 548, Gastonia, N. C. (H-Hvy)
 Haynsworth, T. B., Jr., 216 W. Cedar St., Florence, S. C. (B)
 Hendricks, F. B., 27 Royster Bldg., P. O. Box 835, Shelby, N. C. (H)
 Herman-Sipe & Co., Inc., P. O. Box 306, Conover, N. C. (B)
 Herrin, C. A., 926 Urban Ave., Durham, N. C. (B)
 Heslep, John C., Co., Box 934, No. 3, South Carolina Bk. Bldg., Columbia F, S. C. (B)
 Hickory Constr. Co., Inc., Box 812, Union Sq., Hickory, N. C. (B)
 Hicks, R. C., 324 Piedmont Bldg., Charlotte 2, N. C. (B)
 Higgins, V. B., Co., P. O. Box 1529, Jefferson Standard Bldg., Greensboro, N. C. (Hvy)
 Hines, E. H., Constr. Co., P. O. Box 924, Greenwood, S. C. (B-H-Hvy)
 Holt, Heenan, Box 109, Graham, N. C. (B)
 Homewood, Roy M., P. O. Box 150, Chapel Hill, N. C. (H-Hvy)
 Howard Constr. Co., Inc., Box 3094, Greensboro, N. C. (Hvy)
 Hubbard Constr. Co. of S. C., Inc., Drawer 780, S. Main St., Marion, S. C. (H-Hvy)
 Hunt Constr. Co., Inc., Box 115, West Durham, N. C. (B)
 Industrial Bldrs., Inc., P. O. Box 52, Anderson, S. C. (B-Hvy)
 Interstate Constr. Co., 2317 South Blvd., P. O. Box 3064, Charlotte, N. C. (B)
 Jenkins Bros. Constr. Co., 1619 Oberlin Rd., Box 6082, Raleigh, N. C. (H)
 Johnson & Geddes, 1424 Summit Ave., Fayetteville, N. C. (B-H-Hvy)
 Jones Bros. & Co., Box 1454, Wilson, N. C. (B)
 Jones, J. A., Constr. Co., Inc., 209 W. 4th St., P. O. Box 2162, Charlotte, N. C. (B-Hvy)
 Kahn, M. B., Constr. Co., 113 Blossom St., P. O. Box 595, Columbia G, S. C. (B-Hvy)
 Kane, Geo. W., 603 Jefferson Standard Bldg., P. O. Box 1122, Greensboro, N. C.; 111 Corcoran St. Bldg., Durham, N. C. & Roxboro, N. C. (B)
 Kaylor, John R., Rt. 1, Gastonia, N. C. (B)
 Kenyon, Worth D., Constr. Co., Inc., 813 Capital Club Bldg., Raleigh, N. C. (B)
 Kiker & Yount, Inc., Box 330, 225 W. Morehead St., Reidsville, N. C. (H)
 King-Hunter, Inc., P. O. Box V-2, 1421 Westover Ter., Greensboro, N. C. (B)
 Kirkpatrick, R. F., & Sons, Church St., Box 638, Burlington, N. C. (B)
 Kiziah, J. H., Taylorsville Rd., Box 2322, Hickory, N. C. (B)
 Kuljian Corp., 1200 N. Broad St., Philadelphia 21, Pa. (B-RR)
 Lambeth Constr. Co., Box 1102, 1071 Retreat Co., Greensboro, N. C. (H-Hvy)
 Lavender Bros., Earl, N. C. (H)
 Laxton Constr. Co., Inc., 127 Brevard Ct., P. O. Box 2114, Charlotte 1, N. C. (B)
 Lee Constr. Co., Power Bldg., Box 1378, Charlotte, N. C. (B-Hvy)
 Lee, Robt., Inc., Box 417, Manning, S. C. (H-Hvy)
 Little & Spratt, Inc., 1205 Worthington Ave., Box 1053, Charlotte, N. C. (B)
 Loving, T. A., & Co., Box 989, Goldsboro, N. C. (B-H-Hvy)
 Lowder, Ray D., Inc., Albemarle, N. C. (H)
 MacDougald Constr. Co., Northside Dr., P. O. Box 1655, Atlanta 1, Ga. (H-Hvy-RR)
 Mangum, C. C., Box 5936, State College Sta., Raleigh, N. C. (H-Hvy)
 Manor Constr. Co., Inc., Box 243, Five Points Sta., Columbia, S. C. (B)
 Martin, Ben H., Box 166, Easley, S. C. (H)
 Massey, W. R., Co., Rt. 2, Newton, N. C. (H-Hvy)
 McDewitt & Street Company, Box 1847, 505 Builders Bldg., Charlotte 1, N. C. (B-Hvy)
 McGuire, J. P., Constr. Co., P. O. Box 1726, E. Trinity Ave., Durham, N. C. (H-Hvy)
 McKoy-Helgerson Co., Box 25, 320 S. Hudson St., Greenville, S. C. (B)
 McMeekin Constr. Co., P. O. Box 352, Cheraw, S. C. (H-Hvy)
 Merchant Constr. Co., 290 Biltmore Ave., Box 2479, Asheville, N. C. (B)
 Miller Constr. Co., Thomasville, N. C. (B)
 Mitchell, H. F., Constr. Co., P. O. Box 528, Natl. Bk. Bldg., Burlington, N. C. (B)
 Mixon, B. H., Drawer 452, Henderson, N. C. (B)
 Mobley, Clarence, Constr. Co., 630 11th St., Augusta, Ga. (B-Hvy)
 Modern Bldrs., Inc., 226 S. Main St., Rocky Mount, N. C. (B)
 Moore Constr. Co., P. O. Box 5, Myrtle Beach, S. C. (B)
 Moore, G. E., Co., Inc., Box 1069, Greenwood, S. C. (B-H-Hvy)
 Moragne, Davis, Constr. Co., P. O. Box 1496, 303 Gadsden St., Columbia K, S. C. (B-H-Hvy)
 Morgan, E. R., Box 1101, Gastonia, N. C. (B)
 Morris Constr. Co., P. O. Box 364, Greenville, S. C. (B)
 Moss Constr. Co., 2815 Wilkinson Blvd., Charlotte, N. C. (H-Hvy)
 Muirhead, Wm., Construction Company, Inc., P. O. Box 2012, E. Trinity Ave., Durham, N. C. (B-H-Hvy)
 Mullis, Carl W., Lbr. Co., Box 470, Lancaster, S. C. (B)
 Myers Constr. Co., Inc., P. O. Box 4074, Monroe & Amity Rd., Charlotte, N. C. (H-Hvy)
 Neal, C. P., Constr. Co., P. O. Box 278, Forest City, N. C. (B)
 Nivens Constr. Co., 101 East Blvd., Box 3184, Charlotte 3, N. C. (B)
 Ohio Constr. Corp., Gardner Bldg., Shelby, N. C. (B)
 Palmetto Constr. Co., Inc., Box 431, Columbia, S. C. (H)
 Parham-Darr Constr. Co., P. O. Box 1226, High Point, N. C. (B)
 Patterson, Dean, Constr. Co., 1150 S. Main St., Burlington, N. C. (H-Hvy)
 Peden Constr. Co., 39 Maberry St., Greenville, S. C. (H-Hvy)
 Pennell & Haigler Constr. Co., Lenoir, N. C. (B)
 Phillips Constr. Co., Arch & Catawba Sts., Lancaster, S. C. (B)
 Pickler, M. C., Constr. Co., Inc., Aberdeen, N. C. (B)
 Piedmont Constr. Co., Inc., P. O. Box 1538, 607 Coal St., Winston-Salem 1, N. C. (B-H-Hvy)
 Pinnix, R. H., P. O. Box 97, Commercial Bldg., Gastonia, N. C. (B)
 Player Realty & Constr. Co., P. O. Box 707, Fayetteville, N. C. (B)
 Poe, T. W., & Sons, P. O. Box 245, 406 Snow Bldg., Durham, N. C. (B)
 Potter-Shackelford Constr. Co., Box 1018, Allen Bldg., Greenville, S. C. (B)
 Propst Constr. Co., Inc., P. O. Box 752, Concord, N. C. (H)
 Quinn, E. L., Constr. Co., P. O. Box 1333, Gastonia, N. C. (B)
 Ramsey, A. A., & Son, P. O. Box 1249, Shelby, N. C. (B)
 Rea Constr. Co., P. O. Box 2015, Charlotte, N. C. (H-Hvy)
 Reagan, Wm. M., & Sons, Inc., Main St., Weaverville, N. C. (H)
 Reed & Abee, Inc., Box 5101, Biltmore Sta., Brook St., Asheville, N. C. (Hvy)
 Reinecke-Tarlton, Inc., 460 Rowan St., Fayetteville, N. C. (B)
 Riddlehuber & Co., Inc., P. O. Box 787, Greenwood, S. C. (B-H-Hvy)
 Robinson Bros. Contrs. Inc., 841 Merrimon Ave., Asheville, N. C. (B)
 Rogers Constr. Co., Smithfield, N. C. (B)
 Rogers-DeVaun, Inc., P. O. Box 1585, Wilmington, N. C. (B)
 Rose, D. J., & Son, Drawer 351, Rocky Mount, N. C. (B)
 Rouse, R. N., & Co., 1019 N. William St., P. O. Box 702, Goldsboro, N. C. (B)

A.G.C. DIRECTORY

CAROLINAS—Continued

Ruscon Constr. Co., 149 E. Bay St., P. O. Box 275, Charleston, S. C. (B-Hvy)
 Seastrunk, F. J., Elec. Co., Inc., P. O. Box 329, Columbia, S. C. (Hvy)
 Seth Lumber Co., Inc., Box 468, Lincoln, N. C. (B)
 Setzer Constr. Co., Inc., P. O. Box 574, Hickory, N. C. (H-Hvy)
 Shackelford, O. L., 104 E. Blount St., P. O. Box 886, Kinston, N. C. (B)
 Shipp, C. H., Constr. Co., P. O. Box 667, 1104 Watts St., Durham, N. C. (B)
 Shockley, C. G., Constr. Co., 2020 Blanding St., Columbia 59, S. C. (B)
 Showalter, F. L., Inc., Box 623, Lynchburg, Va. (B-Hvy)
 Simon, W. A., Inc., P. O. Box 87, Wilmington, N. C. (B)
 Skinner, M. L., P. O. Box 364, New Bern, N. C. (B)
 Skinner & Ruddock, Inc., P. O. Box 750, Charleston G, S. C. (B-Hvy)
 Sloan Constr. Co., Inc., P. O. Box 747, Peoples Natl. Bk. Bldg., Greenville, S. C. (H)
 Smith, C. T., & Son, Box 89, Lenoir, N. C. (B)
 Smyth, Norman A., Co., Box 473, Charlotte 1, N. C. (B)
 Sneed's, Z. A., Sons, P. O. Box 255, Wilmington, N. C. (B-Hvy)
 Southeastern Constr. Co., 301 W. 2d St., Box 1517, Charlotte 1, N. C. (B)
 Southern Bldrs., Inc., Box 1016, Fayetteville, N. C. (B-H)
 Southern Constr. Co., P. O. Box 1392, Charlotte, N. C. (B)
 Southern States Constr. Co., 1211½ Washington St., Columbia, S. C. (B)
 Sparling Constr. Co., Guilford Bldg., P. O. Box 1980, Greensboro, N. C. (B)
 Spong Constr. Co., P. O. Box 436, Five Points Station, Columbia, S. C. (B)
 Spruce, Geo. T., 401 Lake Shore Dr., Fayetteville, N. C. (Hvy)
 Stacy Bros. Co., 145 W. Main St., Box 247, Johnson City, Tenn. (H)
 Stewart, Harvey H., P. O. Box 1932, Charlotte, N. C. (H-Hvy)
 Stewart, R. K., & Son, 1519 S. Main, Box 1936, High Point, N. C. (B)
 Stiefel, W. Herbert, Richland Ave. at Williamsburg St., Aiken, S. C. (B)
 Stockton, J. C., & Son, 1316 Wilson St., Augusta, Ga. (B)
 Strong & Harmon, 2714 Cooleemee Dr., Raleigh, N. C. (B)
 Stroup, D. Glenn, 111 Oakdale St., Gastonia, N. C. (B)
 Tate, C. G., Constr. Co., 108 S. Spring St., Concord, N. C. & Box 432, Clayton, Ga. (H)
 Taylor, E. F., Co., Inc., Box 253, Goldsboro, N. C. (B)
 Teer, Nello L., Co., Trust Bldg., Durham, N. C. (H-Hvy)
 Thomas, J. B., & Sons, 306 W. Tremont Ave., Charlotte, N. C. (B)
 Thomason, C. Y., Co., Box 232, Greenwood, S. C. (B-Hvy)

Thompson-Arthur Constr. Co., P. O. Box 1197, Greensboro, N. C. (H-Hvy)
 Thompson, F. N., P. O. Box 1474, Charlotte 1, N. C. (B-H-Hvy)
 Thompson, J. M., & Co., 304 S. Salisbury St., P. O. Box 2754, Raleigh, N. C. (B)
 Thompson, O. G., & Sons, 208 Rolling Rd., Burlington, N. C. (B)
 Towles-Cline Constr. Co., P. O. Box 1617, Wilmington, N. C. (H-Hvy)
 Triangle Constr. Co., P. O. Box 372, Greenville, S. C. (B)
 Triplett, F. A., Inc., Box 297, Chester, S. C. (H)
 Vick, Wm. C., 2300 Lyon St., Raleigh, N. C. (B)
 Wagoner Constr. Co., P. O. Box 795, Salisbury, N. C. (B)
 Wannamaker & Wells, Inc., Box 542, 900 Chestnut, N. E., Orangeburg, S. C. (B-H-Hvy)
 Weaver, W. H., Constr. Co., Inc., 214 W. Gaston St., Greensboro, N. C. (B)
 West Bldg. Co., Inc., Box 1539, Winston-Salem, N. C. (B)
 West, P. S., Constr. Co., Inc., 430 S. Center St., Drawer 751, Statesville, N. C. (B-Hvy)
 White, A. P., & Assos., Box 264, Charlotte, N. C. (Hvy)
 Whitton Bros., 301 W. 2d St., P. O. Box 1517, Charlotte 1, N. C. (B)
 Wilburn & Son, 21 Pinetree Circle, Asheville, N. C. (B)
 Wilson Constr. Co., Inc., Box 603, Salisbury, N. C. (H-Hvy)
 Wilson Covington Constr. Co., P. O. Box 1556, Winston-Salem, N. C. (B)
 Wilson, G. L., Bldg. Co., 149 E. Water St., Box 1147, Statesville, N. C. (B)
 Wilson-Ledford Constr. Co., Inc., E. Franklin Ave., Gastonia, N. C. (B)
 Winkelman, D. W., Carolina Co., Box 2566, Greensboro, N. C. (H-Hvy)
 Withers, P. T., Constr. Co., Box 197, Gastonia, N. C. (B-Hvy)
 Wrenn-Wilson Constr. Co., P. O. Box 393, Durham, N. C. (B-Hvy)
 Young Constr. Co., 966 W. Main St., Rock Hill, S. C. & Box 2483, Charlotte, N. C. (B-H-Hvy)
 Young, J. R., Constr. Co., Inc., P. O. Box 747, 330 Worth St., Fayetteville, N. C. (B-Hvy)
 Zeigler-Cline Constr. Co., 724 Ramsey St., P. O. Box 386, Fayetteville, N. C. (H)

33. NORTH DAKOTA

(a) ASSOCIATED GENERAL CONTRACTORS OF NORTH DAKOTA

President—Joseph M. Powers, T. F. Powers Constr. Co., 217 4th Ave., No., Fargo, N. Dak.
 Manager—R. J. Hendershott, 910 Builders Exch. Bldg., Minneapolis 2, Minn.
 Telephone: Atlantic 0804

(Charter applied for. Chapter now in process of establishment. Charter roll still open.)

34. OHIO

(a) AKRON CHAPTER

President—Carl A. Clemmer, Clemmer Constr. Co., Inc., 134 E. Thornton St., Akron 11, Ohio
 Secretary—Wayne L. Myers, Builders Exch. Bldg., Akron 10, Ohio
 Telephone: Hemlock 3636

Carmichael Constr. Co., The, 148 E. Miller Ave., Akron 1, Ohio (B-Hvy)
 Carter, C. E., 16 W. Burns Ave., Akron 10, Ohio (B)
 Cleaver, David, Co., 390 Morgan Ave., Akron 11, Ohio (B)
 Clemmer Constr. Co., Inc., 134 E. Thornton St., Akron 11, Ohio (B)
 D'Alessio Constr. Co., 595 E. Tallmadge Ave., Akron 10, Ohio (B-Hvy)
 DeLuca Constr. Co., 1055 Grant St., Akron, Ohio (H-Hvy)
 Frank, P. L., Constr. Co., The, 421 W. Highland Ave., Ravenna, Ohio (B)
 Helbig, A. S., Co., The, 39 N. Valley St., Akron, Ohio (Hvy)
 Jackson, Geo. R., Co., The, 266-268 Park St., Akron, Ohio (B)
 Jesse, Walter A., 450 Hickory St., Akron, Ohio (B)
 Lindstrom & Swanson, Inc., 1474 Copley Rd., Akron, Ohio (B)
 Perry, B. F., 106 N. Main St., Akron, Ohio (B-Hvy)
 Rottmayer Constr. Co., 319 Power St., Akron 11, Ohio (B)
 Summit Constr. & Fixture Co., 561 Washington St., Akron, Ohio (B)
 Weinstein Constr. Co., 573 E. Tallmadge Ave., Akron, Ohio (B)

(b) CINCINNATI CHAPTER

President—Louis Richter, Richter Transfer Co., 1249 W. 7th St., Cincinnati 3, Ohio
 Manager—J. A. Higgins, 903 Times Star Tower, Cincinnati 2, Ohio
 Telephone: Parkway 3560

Ajax Constr. Co., The, 6319 Wiehe Rd., Cincinnati 13, Ohio (B)
 Armo Drainage & Metal Prods., Inc., Central Div., Box 170, Middletown, Ohio (H-Hvy-RR)
 Baker & Hickey Co., The, 2170 Eakin Rd., Columbus 4, Ohio (Hvy-RR)
 Boyajohn, Haig M., & Assos., Inc., 990 W. 3d Ave., Columbus 8, Ohio (B)
 Brewer Co., 7455 Dawson Rd., Madeira, Ohio (H-Hvy)
 Brose Constr. Co., 5431 Hetzel Ave., Cincinnati 27, Ohio (B)
 Byrnes-Conway Co., 50 Oak St., St. Bernard, Cincinnati 17, Ohio (H-Hvy)
 Crawley, David, Box 91, College Hill, Cincinnati 24, Ohio (H-Hvy)
 Crumley, Jones & Crumley Co., The, 7234 Blue Ash Ave., Deer Park 13, Ohio (H-Hvy)
 Danis, B. G., Co., 1518 E. 1st St., Dayton 3, Ohio (B)
 DeSalvo Constr. Co., 342 Elliott Ave., Cincinnati 15, Ohio (H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

OHIO—Continued

Ferro Concrete Constr. Co., 203 W. 3d St., Cincinnati 2, Ohio (B-Hvy)
 Fisher-DeVore Constr. Co., 3629 Idlewild Ave., Cincinnati 7, Ohio (B)
 Foley Constr. Co., S. E. Cor. Beekman & Dremar Sts., Cincinnati 23, Ohio (H-Hvy-RR)
 Harper, W. L., Co., 2910 E. Highland Ave., Cincinnati 12, Ohio (H-Hvy)
 Jurgensen, John R., Round Bottom & N. & W. R. R., Newtown, Ohio (H-Hvy)
 Korte Constr. Co., The, 324 Railroad Ave., St. Bernard, Cincinnati 17, Ohio (B)
 Maescher, Chas. V., & Co., 2106 Florence Ave., Cincinnati 6, Ohio (B-Hvy)
 Marcus, M., Bldg. Co., 2109 Reading Rd., Cincinnati 2, Ohio (B)
 McCarthy, Ed. A., & Son, Box 55, Sta. E, Cincinnati 19, Ohio (B-RR)
 Messer, Frank, & Sons, Inc., 4612 Paddock Rd., Cincinnati 29, Ohio (B-Hvy)
 Meyer-Hecht Co., 2824 Stanton Ave., Cincinnati 6, Ohio (B)
 Miller, H. W., Constr. Co., Inc., 1511 Neave St., Covington, Ky. (B-Hvy)
 Murdoch Constr. Co., The, 1686 West St., Norwood 12, Ohio (H-Hvy)
 O'Connell & Sweeney, Inc., Rm. 409, Eagle Savings Bldg., 914 Main St., Cincinnati 2, Ohio (H-Hvy)
 Penker Constr. Co., The, 1030 Summer St., Cincinnati 4, Ohio (B-Hvy)
 Peters, Paul C., Co., Rm. 27, Kenton Bldg., 2318 Monroe St., Toledo 2, Ohio (B)
 Richardson Constr. Co., Inc., 5236 Kennedy Ave., Cincinnati 13, Ohio (H)
 Richter Transfer Co., 1249 W. 7th St., Cincinnati 3, Ohio (H-Hvy)
 Ruebel, S. A., & Co., 4338 Georgia Ct., Cincinnati 23, Ohio (H-Hvy-RR)
 Schwartz Bros. & Co., Inc., 1121-30 Keith Bldg., 525 Walnut St., Cincinnati 2, Ohio (B)
 Scully Bros., 405 Atlas Bk. Bldg., Cincinnati 2, Ohio (H)
 Shook, Chas. H., 582 W. 2d St., Dayton 1, Ohio (B)
 Swan Constr. Inc., P. O. Box 1727, Cincinnati 1, Ohio (B-Hvy)
 Vest & Bartell Constr. Co., 4438 Appleton St., Cincinnati 9, Ohio (H-Hvy)
 Wagner, Inc., 3855 Alta Ave., Silverton, Cincinnati 36, Ohio (B-H-Hvy)
 Warm, J. & E., Co., The, 2335 Florence Ave., Cincinnati 6, Ohio (B-Hvy)
 Zull, C. Louis, 831 Temple Bar Bldg., Cincinnati 2, Ohio (B)

(c) CLEVELAND CHAPTER

President—C. Earle Pratt, The Cleveland Constr. Co., 3866 Carnegie Ave., Cleveland 15, Ohio
Executive Secretary—Chas. W. Jauch, 1737 Euclid Ave., Cleveland 15, Ohio
Telephone: Main 4000

Alger-Rau, Inc., 17024 Miles Ave., Cleveland 20, Ohio (B)
 Bolton-Pratt Co., The, 1276 W. 3d St., Cleveland 13, Ohio (B)
 Brown Constr. Co., The, 2520 Payne Ave., Cleveland 14, Ohio (B)

Burton, Chas. A., Inc., 1836 Euclid Ave., Cleveland 15, Ohio (B)
 Carbone, R. P., Constr. Co., 1504 Scovill Ave., Cleveland 15, Ohio (B)
 Christian, J. E., Co., The, 5703 Curtiss Ave., Cleveland 3, Ohio (B)
 Cleveland Constr. Co., The, 3866 Carnegie Ave., Cleveland 15, Ohio (B)
 Duffy Constr. Co., 540 Terminal Tower, Cleveland 13, Ohio (B)
 Dunbar Co., The, 8201 Cedar Ave., Cleveland 3, Ohio (B)
 Dunlop & Johnston, Inc., 2138 Lee Rd., Cleveland Heights 18, Ohio (B)
 Emerson, Sam W., Co., The, 1836 Euclid Ave., Cleveland 15, Ohio (B)
 Esch Constr. Co., 812 Caxton Bldg., Cleveland 15, Ohio (B)
 Ferguson, H. K., Co., The, 1783 E. 11th St., Cleveland 14, Ohio (B)
 Freeman & Jones, Inc., 6007 Euclid Ave., Cleveland 3, Ohio (Hvy-RR)
 Gaspard Constr. Co., The, 2193 Concord Dr., Cleveland 7, Ohio (B)
 Gillmore, Carmichael & Olson Co., The, 1873 E. 55th St., Cleveland 3, Ohio (B)
 Henderson, David, & Son, 7808 Kinsman Rd., Cleveland 4, Ohio (B)
 Higley, Albert M., Co., The, 2036 E. 22d St., Cleveland 15, Ohio (B)
 Humel Constr., Inc., 17706 Miles Ave., Cleveland 22, Ohio (B)
 Hunkin-Conkey Constr. Co., The, 1740 E. 12th St., Cleveland 14, Ohio (B-Hvy)
 Hunting, J. L., Co., The, Chester-9th Bldg., Cleveland 14, Ohio (B)
 Klefman, H. E., Co., The, 3436 Lorain Ave., Cleveland 13, Ohio (B)
 Krill, Leonard H., Co., The, 2169 E. 33d St., Cleveland 15, Ohio (B)
 Masters & Mullen Constr. Co., The, 437 Chester-12th Bldg., Cleveland 14, Ohio (B)
 Minton Constr. Co., 3751 Prospect Ave., Cleveland 16, Ohio (B-Hvy)
 Mitzel Co., The, 1836 Euclid Ave., Cleveland 15, Ohio (B)
 National Concrete Fireproofing Co., The, 1220 Terminal Tower Bldg., Cleveland 13, Ohio (B)
 Paugh & Brown, Inc., 6007 Euclid Ave., Cleveland 3, Ohio (B)
 Peck & Udell Constr. Co., The, 4500 Euclid Ave., Cleveland 3, Ohio (B)
 Rankin, D. W., Inc., 1836 Euclid Ave., Cleveland 15, Ohio (B)
 Regan, C. T., Constr. Co., The, 1900 Euclid Ave., Cleveland 15, Ohio (B)
 Roediger Constr., Inc., 1737 Euclid Ave., Cleveland 15, Ohio (B)
 Rutherford, Geo. A., Co., The, 2725 Prospect Ave., Cleveland 15, Ohio (B)
 Schirmer-Peterson Co., The, 6830 Beaver Ave., Cleveland 4, Ohio (B)
 Schirmer-Schneider Co., The, 2719 Detroit Ave., Cleveland 13, Ohio (B)
 Schloss, Wm. L., Asphalt Paving Co., 3494 Lee Rd., Cleveland 20, Ohio (H)
 Schmidt, Leo W., Co., 10000 Granger Rd., Cleveland 5, Ohio (B)
 Slatmyer, Henry G., & Son Constr. Co., The, 203 Lakeside Ave., N. W., Cleveland 13, Ohio (B)

Smith, Howard L., 3198 Whitethorn Rd., Cleveland 18, Ohio (B)
 Swisher, Mark, Inc., 1600 E. 25th St., Cleveland 14, Ohio (B)
 Ursprung, R. S., Co., Hanna Annex, Cleveland 15, Ohio (B)
 Vokes, H. L., Co., Inc., 1000 Wayside Rd., Cleveland 10, Ohio (B)

(d) OHIO HIGHWAY CHAPTER

President—A. W. Burns, The A. W. Burns Constr. Co., 424 Woodland Ave., Columbus 3, Ohio
Executive Secretary—Chas. E. McKee, 814 Hartman Bldg., Columbus 15, Ohio
Telephone: Adams 6969

Baltes, A. J., Inc., 181 Benedict Ave., Norwalk, Ohio (H)
 Brewer & Brewer Sons, Inc., 81 W. Water St., Chillicothe, Ohio (H)
 Burns, A. W., Constr. Co., The, 424 Woodland Ave., Columbus 3, Ohio (H)
 Complete General Constr. Co., 1221 E. 5th Ave., Columbus 3, Ohio (H-Hvy)
 Dienst, Robt. J., 297 S. High St., Columbus 15, Ohio (H)
 Frowine Constr. Corp., 821 Prospect St., Portsmouth, Ohio (H-Hvy)
 Herring, Geo. B., & Son, 30 Junction St., Mansfield, Ohio (H)
 Holderman, V. N., & Sons, Inc., 297 S. High St., Columbus, Ohio (H-Hvy-RR)
 Johnson, S. E., Co., The, Box 29, Maumee, Ohio (H)
 Johnson, W. L., Constr. Co., 209 E. High St., Hicksville, Ohio (H-Hvy)
 Langenderfer, Arthur S., & Co., P. O. Box 815, Toledo 1, Ohio (H)
 Launder & Son, Inc., Sta. E, Box 6, Toledo, Ohio (H)
 Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
 Peirce Constr. Co., 3005 Bellevue Rd., Toledo 6, Ohio (H)
 Purdy Constr. Co., The, 200 E. Longview Ave., Box 188, Mansfield, Ohio (H-Hvy-RR)
 Replogle, C. F., P. O. Box 308, Circleville, Ohio (B-H)
 Ringwald, W. H., & Sons Co., Chillicothe, Ohio (H-Hvy)
 Tri-State Asphalt Corp., S. Broadway, Martins Ferry, Ohio (H)
 Vogt, Elmer, Inc., 846 Wellman Ave., S. E., Massillon, Ohio (H-Hvy-RR)
 Zeller, Max J., Inc., 297 S. High St., Columbus 15, Ohio (H)

(e) ASSOCIATED BUILDING CONTRACTORS OF TOLEDO, INC.

President—Wm. H. Comte, Comte Constr. Co., 912 Summit St., Toledo 4, Ohio

Bentley, A., & Sons Co., The, 201 Belmont Ave., Toledo 2, Ohio (B-Hvy)
 Comte Constr. Co., 912 Summit St., Toledo 4, Ohio (B)
 Lathrop, Geo. W., & Sons, Inc., Box 772, Toledo 1, Ohio (B)

OHIO—Continued

Naumann, John, & Sons, Inc., 364 Parker Ave., Toledo 5, Ohio (B)
 Spieker, Henry J., Co., The, 1418 Elm St., Toledo 1, Ohio (B)
 Watts Constr. Co., The, 1235 Miami St., Toledo, Ohio (B-Hvy)

Local Members

Barr, C. M., Company, 1152 W. Goodale Blvd., Columbus 8, Ohio (B)
 Bauer, Martin L., Construction Company, 1909 Manchester Ave., Middletown 22, Ohio (B)
 Benzing, A., & Sons, 709 S. 9th St., Hamilton, Ohio (B)
 Elford, E., & Son, Inc., 555 S. Front St., Columbus 15, Ohio (B-Hvy-RR)
 Steidle-Wolfe, Inc., 128 N. Jefferson St., Fremont, Ohio (B)

35. OKLAHOMA

(a) OKLAHOMA BUILDERS CHAPTER

President—H. B. Bass, D. C. Bass & Sons Constr. Co., 314-16 Bass Bldg., P. O. Box 246, Enid, Okla.
Executive Secretary—Mrs. Ruth Ann Leslie, 1109 Perrine Bldg., Oklahoma City 2, Okla.
Telephone: 3-8408

Barbour & Short, 323 E. Mosier, Norman, Okla. (B)
 Basanda Constr. Co., 2925 N. W. 39th Ter., Oklahoma City, Okla. (Hvy)
 Bass, D. C., & Sons Constr. Co., 314-16 Bass Bldg., P. O. Box 246, Enid, Okla. (B)
 Bellows, W. S., Constr. Corp., P. O. Box 2132, 716 N. Everton St., Houston 1, Texas (B-Hvy)
 Bollinger, J. J., Constr. Co., Box 1333, Oklahoma City 1, Okla. (B)
 Brooks, Larry T., P. O. Box 2113, Tulsa, Okla. (B)
 Builders Constr. Co., 409 Kerr-McGee Bldg., Oklahoma City 2, Okla. (B)
 Burns-Brandes Constr. Co., 1924 E. 7th Pl., Tulsa, Okla. (B)
 Bush, E. B., Constr. Co., P. O. Box 5126, Farley Sta., Oklahoma City 7, Okla. (B)
 Chapman Constr. Co., P. O. Box 170, Lawton, Okla. (B)
 Corey, J. S., Constr. Co., 27th & N. Santa Fe, Oklahoma City 5, Okla. (B)
 Cowen Constr. Co., 214 N. Broadway, Shawnee, Okla. (B)
 Culwell, Haskell, Constr. Co., 40 N. E. 28th, Oklahoma City, Okla. (B)
 Cummins, H. E., & Sons, 1702 Cypress (East), Enid, Okla. (B)
 Dennehy Constr. Co., 514 W. Noble St., Oklahoma City 4, Okla. (B)
 DeWitt Co., The, Tuloma Bldg., Tulsa 3, Okla. (B)

Ditmars-Dickmann Constr. Co., 3712 W. Okmulgee, Muskogee, Okla. (B)
 Dunning-Walpole Constr. Co., P. O. Box 1183, Oklahoma City 1, Okla. (B)
 Eldridge Constr. Co., 914 N. Jefferson, Enid, Okla. (B)
 Ellis-Nicholson & Cramer, Inc., 610 Hightower Bldg., Oklahoma City 2, Okla. (B)
 Frederickson-Parks, Inc., 4325½ N. Western, Oklahoma City, Okla. (B)
 Grimshaw, W. R., Co., 208-212 KOME Bldg., 8th & Main Sts., Tulsa 3, Okla. (B-Hvy)
 Hannaford Constr. Co., 1805 E. Haskell Pl., Tulsa, Okla. (B)
 Harmon Constr. Co., P. O. Box 1414, 100 S. Indiana, Oklahoma City 1, Okla. (B)
 Hoke Constr. Co., P. O. Box 431, Stillwater, Okla. (B)
 Horster Constr. Co., Natl. Bk. of Tulsa Bldg., Tulsa 3, Okla. (B)
 Hughes, Chas. T., Constr. Co., 1225 Linwood, Oklahoma City, Okla. (B)
 Industrial Constr. Co., 1627 W. Main, Oklahoma City 4, Okla. (B)
 J & J Constr. Co., 1801 Petroleum Bldg., Oklahoma City 2, Okla. (Hvy)
 Johnson-Winston-Kiewit, Box 1588, Muskogee, Okla. (B)
 Lewellen, E. A., 2339 Towers Ct., Oklahoma City 5, Okla. (B)
 Lippert Bros., 27th & N. Santa Fe, P. O. Box 3085, Oklahoma City 5, Okla. (B-Hvy)
 Lohmann, H. R., Co., Philtower Bldg., Tulsa 3, Okla. (B)
 Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla. (B-Hvy)
 Martin Constr. Co., Commerce Exch. Bldg., Oklahoma City 2, Okla. (B)
 Mattern Constr. Co., 3130 Woodward Blvd., Tulsa, Okla. (B)
 Mattison, R. E., & Co., Box 458, Britton, Okla. (B-H)
 McCrae & Noftger, 5236 Classen, Oklahoma City, Okla. (B)
 Mefford Constr. Co., P. O. Box 668, Enid, Okla. (B)
 Nashert, Walter, Co., 16 N. E. 27th, Oklahoma City 5, Okla. (B)
 Price, W. E., Constr. Co., 1627 W. Main St., Oklahoma City 4, Okla. (B)
 Putney, John H., Constr. Co., 133 W. 2d St., Oklahoma City 3, Okla. (B)
 Secor Bldg. Co., Inc., 201 Plaza Ct., Oklahoma City 3, Okla. (B)
 Shelton, W. C., Co., The, 515 S. 4th St., Lawton, Okla. (B)
 Suttle, Chas. M., 12 N. W. 8th St., Oklahoma City 3, Okla. (B)
 Tankersley Constr. Co., 1912 1st Natl. Bldg., Oklahoma City 2, Okla. (B)
 Thurman, John M., P. O. Box 1076, Borger, Texas (B)
 Tulsa Rig, Reel & Mfg. Co., 901 Philtower Bldg., P. O. Box 490, Tulsa 1, Okla. (B)
 Walco Engr. & Constr. Co., 2408 E. 4th Pl., Tulsa 4, Okla. (B)
 Waller-Wells Constr. Co., P. O. Box 4067, Walker Sta., Tulsa 9, Okla. (B)
 Whitehurst Constr. Co., 113 Glenside Ave., Ponca City, Okla. (B)

(b) ASSOCIATION OF OKLAHOMA GENERAL CONTRACTORS

President—R. R. Ryan, Ryan-Richards Co., 1401 N. W. 5, Oklahoma City, Okla.
Manager—Glenn McDonald, 715 Wells-Roberts Hotel, Oklahoma City, Okla.
Telephone: 2-4265

Amis Constr. Co., 1647 Exchange Ave., Box 1871, Oklahoma City, Okla. (H-Hvy-RR)
 Anchor Constr. Co., 806-808 Manhattan Bldg., Muskogee, Okla. (H-Hvy)
 Anderson Constr. Co., Box 265, McAlester, Okla. (H-RR)
 Banta Constr. Co., 1646 W. Main, Oklahoma City 4, Okla. (H)
 Barber, E. E., Constr. Co., 1521 George Ave., Box 254, Fort Smith, Ark. (H-RR)
 Baughman, Roy, 4001 N. W. 9th, Oklahoma City, Okla. (H)
 Bentley, Rex H., Box 191, Ada, Okla. (H)
 Biles, J. B., Constr. Co., Arnote Bldg., P. O. Box 22, McAlester, Okla. (H)
 Blackburn, W. H., Constr. Co., 1916 N. Broadway, Oklahoma City, Okla. (H-RR)
 Brewer & McMichael, Inc., 314 W. 7th, Box 308, Holdenville, Okla. (H)
 Briscoe, J., Box 188, 414 E. 11th Ave., Stillwater, Okla. (H)
 Broce Constr. Co., P. O. Box 521, Woodward, Okla. (H)
 Brown, H. D., 521 Lincoln, Stillwater, Okla. (H-Hvy)
 Cohenour Constr. Co., Gilbert Bldg., Box 884, Ardmore, Okla. (H)
 Dahlgren & Brooks, 425 Insurance Bldg., Oklahoma City, Okla. (H)
 Durrett, Jack, Box 600, Keota, Okla. (H-RR)
 Elliott Bros., Inc., 425 Locust St., Box 425, Perry, Okla. (H)
 Erts, John, Constr. Co., 2112 N. W. 27th St., Oklahoma City, Okla. (H)
 Evans, S. E., Constr. Co., Box 903, Fort Smith, Ark. (H-Hvy-RR)
 Fisher, J. M., 303 E. Castro, Norman, Okla. (H)
 Fisher, L. S., Woodward, Okla. (B-H-Hvy)
 Frazier Constr. & Materials Co., 805 Tradesmen's Natl. Bldg., Oklahoma City, Okla. (H-Hvy)
 Frost Constr. Co., Hydro, Okla. (H)
 Fry, Roy U., 807 E. Main St., Ada, Okla. (H-Hvy)
 Fullerton & Hussey, 921 W. Main, Oklahoma City, Okla. (H-Hvy)
 Fulton, W. D., Constr. Co., 2304 N. W. 28th, Oklahoma City, Okla. (H)
 G-I Constr. Co., Box 116, Meeker, Okla. (H)
 Gaines Bros., 530 D St., N. E., Box 1006, Miami, Okla. (B-H-Hvy)
 General Constr. Corp., Capitol Post Office, Box 3097, Oklahoma City, Okla. (H-Hvy)
 Gore, P. E., Webb, Okla. (H)
 Gorham, Gordon C., 125 N. W. 27th St., Oklahoma City, Okla. (H)
 Gragg, O. R., Box 261, Henryetta, Okla. (H)
 Henryetta Constr. Co., Henryetta, Okla. (H-Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

OKLAHOMA—Continued

Honegger Bros. Constr. Co., Kingfisher, Okla. (H)
 Hunter Constr. Co., Box 538, Ada, Okla. (H-Hvy-RR)
 James, Guy H., Constr., 1816 1st Natl. Bldg., Oklahoma City 2, Okla. (H)
 Keck, G. E., Fairview, Okla. (B-H-Hvy)
 Landt, H. R., 2136 N. W. Park Pl., Oklahoma City, Okla. (H)
 Layman & Co., P. O. Box 2395, Tulsa, Okla. (H)
 Lemon, Haskell, P. O. Box 357, Tishomingo, Okla. (H)
 Logan, W. E., & Sons, 906 Barnes Bldg., P. O. Box 207, Muskogee, Okla. (H-Hvy)
 McClintone Bros. Constr. Co., 310 Ozark Theatre Bldg., Box 749, Fayetteville, Ark. (H)
 McConnell Constr. Co., 506 Surety Bldg., Muskogee, Okla. (H)
 McMichael Concrete Co., 1113 Hunt Bldg., Tulsa 3, Okla. (H-Hvy)
 Merritt Constr. Co., Grove, Okla. (H)
 Metropolitan Paving Co., Inc., 300 S. Indiana, Box 3686, N. W. Sta., Oklahoma City, Okla. (H)
 Moore Bros., Inc., Box 140, Ada, Okla. (H-Hvy)
 Moorman, J. W., & Son, Box 1509, Muskogee, Okla. (H)
 Mosher & Kiker, El Reno, Okla. (H)
 Mullinix Constr. Co., 1433 N. W. 5th St., Oklahoma City 6, Okla. (H)
 Oklahoma Paving Co., Rt. 10, Box 526, Oklahoma City, Okla. (H)
 Ottinger Bros., Box 7038, 39th St. Sta., Oklahoma City, Okla. (H)
 P & H Constr. Co., 3715 N. W. 23d St., Oklahoma City, Okla. (H)
 Park-Ward Co., 711 N. W. 38th St., Oklahoma City, Okla. (H-Hvy)
 Plymate, Clay, Co., Inc., Box 7027, 39th St. Sta., Oklahoma City, Okla. (H)
 Poston Sand & Gravel, 6 Ave., E., Lawton, Okla. (H-RR)
 Raines, J. A., P. O. Box 936, Muskogee, Okla. (H-Hvy)
 Ryan-Richards Co., 1401 N. W. 5, Oklahoma City, Okla. (H)
 Sawallisch Constr. Co., 200 W. Elm, P. O. Box 782, El Reno, Okla. (H)
 Smith Bros., Noble, Okla. (H)
 Smith, Noland, Constr. Co., Box 761, El Reno, Okla. (H)
 Sooner Constr., Box 23, Muskogee, Okla. (B-H)
 Stamey Constr. Co., 10 W. 21st St., Hutchinson, Kans. (H-Hvy-RR)
 Standard Paving Co., 2119 E. 11th St., Tulsa, Okla. (H)
 Stebbins Constr. Co., Box 1498, Tulsa, Okla. (H-Hvy)
 Steelman Constr. Co., 2800 N. E. 4th St., P. O. Box 1283, Oklahoma City, Okla. (H-Hvy)
 Steinberg Constr. Co., 1514 S. 79th East Ave., Tulsa, Okla. (H)
 Thompson, Jim S., 2209 N. Shartel, Oklahoma City, Okla. (H-Hvy)

Tulsa Rig, Reel & Mfg. Co., 901 Philtower Bldg., Box 490, Tulsa 1, Okla. (B-H-Hvy)
 Tway, R. R., Co., 710 N. E. 19, Oklahoma City, Okla. (B-H-Hvy)
 Wilkerson, J. Ted., 4638 Millcreek Rd., Kansas City, Mo. (B-H-Hvy)
 Williams Bros. Corp., 324 Natl. Bk. of Tulsa Bldg., Tulsa, Okla. (Hvy)
 Youngman, H. D., P. O. Box 166, Baxter Springs, Kans. (H-Hvy-RR)
 Zschach Constr. Co., 200½ N. Morton, Okmulgee, Okla. (B-H)

36. OREGON

(a) PORTLAND CHAPTER

President—Karl F. Jacobsen, Jacobsen & Brittan, Inc., 0445 S. W. Porter St., Portland 1, Ore.
Manager—A. H. Harding, Suite 112, Multnomah Hotel, Portland 4, Ore.
Telephone: Atwater 7339

Adler Constr. Co., Lytle Bldg., Madras, Ore. (H-Hvy-RR)
 Arenz, Theo. & J. M., 407 Title & Trust Bldg., Portland 4, Ore. (H-Hvy-RR)
 Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Ore. (B-H-Hvy-RR)
 Babler Bros., 4617 S. E. Milwaukie Ave., Portland 2, Ore. (H-Hvy)
 Bauman, W. C., Co., 7501 S. W. Beaverton-Hillsdale Hwy., Portland 19, Ore. (B-Hvy)
 Beebe, Del R., Constr. Co., W. 11th Ave., P. O. Box 138, Eugene, Ore. (H-Hvy)
 Benold, A. Wilson, 32-33 Coble Bldg., Bend, Ore. (B-Hvy)
 Birkemeier & Saremal, 301 Lewis Bldg., Portland 4, Ore. (B-H-Hvy)
 Buckler, Geo. H., Co., 4235 S. E. 17th Ave., Portland 2, Ore. (B-H-Hvy-RR)
 Byers, R. W., Box 67, Redding, Calif. (H-Hvy)
 Campbell Constr. & Equip. Co., 2316 N. W. 22 Ave., Portland, Ore. (H-Hvy)
 Cascade Constr. Co., Foot of S. W. Abernathy, Portland, Ore. (H-Hvy)
 Compton, J. C., Co., Box 86, McMinnville, Ore. (H-Hvy)
 Conley, J. N. & M. J., 4332 N. E. Royal Ct., Portland, Ore. (Hvy)
 Cooney, Don L., Inc., 1749 Airport Way, Seattle 4, Wash. (Hvy)
 Coos Bay Dredg. Co., Inc., P. O. Box 217, Coos Bay, Ore. (Hvy)
 D-H Paving Co., Rt. 1, Box 148-A, Vancouver, Wash. (H)
 Dennis, G. D., & Sons, 7355 S. E. Johnson Creek Blvd., Portland 6, Ore. (H-Hvy)
 Earley, Roy T., Co., 321 Middle Waterway, P. O. Box 1591, Tacoma, Wash. (B-Hvy)
 Edlefsen-Weygandt Co., P. O. Box 5626, 9233 N. Calvert Ave., Portland 17, Ore. (H-Hvy)
 Eiring & Prothero, P. O. Box 1117, Hermiston, Ore. (B-Hvy)
 Empire Constr. Co., 4506 S. E. 39th, Portland, 2, Ore. (H-Hvy)
 Erland & Bickle, 8265 N. Borthwick, Portland 11, Ore. (Hvy)
 Franks Dredg. Co., P. O. Box 273, Astoria, Ore. (H-Hvy)
 Gates, E. L., Inc. % Rouse & Bell, 449 E. 2d Ave., So., Roseburg, Ore. (H-Hvy-RR)
 General Construction Company, P. O. Box 3860, 4850 N. W. Front Ave., Portland 8, Ore. (B-H-Hvy-RR)
 Gilpin Construction Co., The, 4850 N. W. Front Ave., Box 3860, Portland 8, Ore. (B-H-Hvy-RR)
 Goulter, K. L., & Co., P. O. Box 37, Dexter, Ore. (H)
 Hall, E. C., Co., 12012 S. W. Barbur Blvd., Portland 19, Ore. (H-Hvy-RR)
 Halvorson, Carl M., Inc., 218 Builders Exch. Bldg., Portland, Ore. (H-Hvy)
 Hamilton & Thoms, Box 726, Eugene, Ore. (H-Hvy)
 Harding Blasting Co., 0660 S. W. Gibbs St., Portland 1, Ore. (H-Hvy)
 Harr & Horton, P. O. Box 5662, 9209 N. Calvert St., Portland, Ore. (H-Hvy)
 Hauser Constr. Co., 203 Multnomah Hotel, Portland 4, Ore. (B-H-Hvy-RR)
 Havlik, John, Jr., Scappoose, Ore. (B-Hvy)
 Heintz, R. A., Constr. Co., 8101 N. E. Union Ave., Portland, Ore. (Hvy)
 Henshaw Bros., 2627 N. E. Thompson, Portland 12, Ore. (H-Hvy)
 Hoffman, Lee, 535 S. E. Water St., P. O. Box 2028, Portland 14, Ore. (H-Hvy)
 Hoyt, Chas. H., 107 S. 1st, Silverton, Ore. (H-Hvy)
 Huernegard Elec. Co., 225 Henry Bldg., Portland 4, Ore. (H-Hvy)
 Inter-City Sand & Gravel Co., Inc., 3698 S. 99th, Eugene, Ore. (H-Hvy)
 Jacobsen & Brittan, Inc., 0445 S. W. Porter St., Portland 1, Ore. (H-Hvy)
 Jarl, Vernie, Box 254, Gresham, Ore. (H)
 Kern & Kibbe, 8706 N. Bradford St., P. O. Box 2560, Portland 12, Ore. (B-H-Hvy-RR)
 Ketell Constr. Co., 320 Board of Trade Bldg., Portland 4, Ore. (B-Hvy)
 Kiewit, Peter, Sons' Co., 8th & Douglas, P. O. Box 491, Longview, Wash. (H-Hvy-RR)
 Kirkpatrick Constr. Co., 1005 36 Ave., Milwaukie 2, Ore. (B-Hvy)
 Kuckenberg Constr. Co., 11104 N. E. Holman St., P. O. Box 7407, Parkrose Sta., Portland 20, Ore. (B-H-Hvy-RR)
 Leonard & Slate Oregon, Ltd., 7805 S. W. 40th Ave., P. O. Box 7128, Portland 19, Ore. (H-Hvy-RR)
 Lillebo, Tom, Reedsport, Ore. (H-Hvy)
 Lind, Geo. W., 5000 N. E. Killingsworth Ave., Portland 13, Ore. (H-Hvy)
 Lindstrom Bros., Inc., 7335 N. E. Broadway, Portland 16, Ore. (B-H-Hvy)
 Lininger, M. C., & Sons, P. O. Box 1386, Medford, Ore. (H)
 Lord, P. S., Mechanical Contrs., 4507 S. E. Milwaukie Ave., P. O. Box 4505, Portland 2, Ore. (Hvy)
 Lyons, Frank, & Co., 5200 N. E. Alberta, Portland 13, Ore. (H-Hvy-RR)
 Lytle-Amis, P. O. Box 1239, Lowell, Ore. (H-Hvy-RR)
 Macco Corp., 14409 S. Paramount Blvd., Paramount, Calif. (H-Hvy)

A.G.C. DIRECTORY

OREGON—Continued

Malcom, C. T., 4085 N. Columbia Blvd., P. O. Box 5652, Kenton Sta., Portland, Oreg. (H-Hvy)
 McDougall, Nait, Co., 824 Pittock Block, Portland 5, Oreg. (B-H-Hvy-RR)
 McKenzie, D. F., 1465 Mission St., Salem, Oreg. (H-Hvy)
 McKinnon Constr. Co., Reedsport, Oreg. (H-Hvy)
 McNary Dam Contrs., P. O. Box 1, Plymouth, Wash. (Hvy)
 McNutt Bros., 351½ E. Broadway, Eugene, Oreg. (H-Hvy-RR)
 Miller & Strong, Inc., 3871 Royal Rd., Eugene, Oreg. (H-Hvy)
 Minnis & Shilling, 3144 W. 11th St., Eugene, Oreg. (H-Hvy)
 Montag, C. J., & Sons, 7805 N. E. Halsey, Portland 16, Oreg. (B-H-Hvy)
 Morrison-Knudsen Co., Inc., Swan Island, Portland 18, Oreg. (B-H-Hvy-RR)
 Newport Constr. Co., 7031 N. E. Halsey St., Portland 16, Oreg. (H-Hvy-RR)
 Norris, Guy J., Rt. 1, Box 32, Shelton, Wash. (H)
 Olson, Russell, Constr. Co., P. O. Box 272, Pendleton, Oreg. (H)
 O'Neil, C. R., Box 346, North Powder, Oreg. (H-Hvy)
 Oregon Asphaltic Paving Co., 0441 S. W. Porter, Portland 1, Oreg. (H-Hvy-RR)
 Palmberg, H. G., P. O. Box 991, Astoria, Oreg. (Hvy)
 Papin, J. C., 408 Sommer Bldg., Baker, Oreg. (H-Hvy-RR)
 Parker-Schram Co., Builders Exch. Bldg., Portland 4, Oreg. (B-H-Hvy-RR)
 Penepacker, Frank, 400 N. Thompson St., Portland 12, Oreg. (H-Hvy)
 Perkins Bros., 8535 S. E. Stark St., Portland 16, Oreg. (H-Hvy)
 Port Constr. Co., P. O. Box 868, Port Angeles, Wash. (H-Hvy)
 Portland Tug & Barge Co., 8444 N. W. St. Helens Rd., P. O. Box 4199, Portland 8, Oreg. (Hvy-RR)
 R & M Constr. Co., 12 Main St., P. O. Box 1673, Central Point, Oreg. (H)
 Ramsey Constr. Co., 2399 N. 9th St., P. O. Box 507, Corvallis, Oreg. (H)
 Raymond Concrete Pile Co., 414 Equitable Bldg., Portland 4, Oreg. (Hvy)
 Rogers Constr. Co., 11760 N. E. Glisan, Portland 16, Oreg. (H-Hvy)
 Rush Constr. Co., 304 W. Main, Enterprise, Oreg. (H)
 Rushlight Automatic Sprinkler Co., 55 N. E. Farragut St., Portland, Oreg. (B-Hvy)
 Sackett, Allen E., 802 9th St., Hood River, Oreg. (H-Hvy)
 Salem Sand & Gravel Co., 1405 N. Front St., Salem, Oreg. (H-Hvy)
 Samuel, B. H., & Sons, 2435 N. E. 37 Ave., Portland, Oreg. (Hvy-RR)
 Saxton, A. H., & Sons, Rt. 2, Corvallis, Oreg. (H-Hvy)
 Smith Bros. Gen. Contrs., Inc., 29 Algona Dr., Vancouver, Wash. (Hvy)
 Smith, W. C., Inc., 216 Board of Trade Bldg., Portland 4, Oreg. (B-H-Hvy)

Somers, F. L., P. O. Box 938, Klamath Falls, Oreg. (H-Hvy)
 Soule, O. L., 2645 S. E. 11th, Portland 66, Oreg. (B-H-Hvy)
 Starr, H. A., 2425 N. Commercial St., Portland 12, Oreg. (H-Hvy)
 Stevenson Constr. Co., 2045 S. 19 St., Salem, Oreg. (H)
 Strong & MacDonald, Inc., 4045 Ruston Way, Tacoma 2, Wash. (H-Hvy)
 Taggart, J. R., & Co., Inc., Rt. 1, Box 14, Salem, Oreg. (H)
 Troxell, J. A., 1007 Spalding Bldg., Portland, Oreg. (Hvy)
 Tru-Mix Concrete Co., 248 McAndrews Rd., P. O. Box 1147, Medford, Oreg. (H-Hvy)
 United Contr. Co., Box 5075, Portland 13, Oreg. (B-H-Hvy-RR)
 Utah Construction Co., The, 1 Montgomery St., San Francisco 4, Calif. (Hvy-RR)
 Ward, Ken, Constr. Co., 5120 S. E. Milwaukie Ave., Portland, Oreg. (B-Hvy)
 Warren Northwest, Inc., P. O. Box 5072, 9860 N. E. Hancock Dr., Portland 13, Oreg. (B-H-Hvy-RR)
 Watts, J. G., Constr. Co., 3419 16th Ave., W., Seattle 99, Wash. (B-H)
 Werner, H. C., Inc., 3170 W. 11th, Eugene, Oreg. (H-Hvy)
 White Bros. Constr. Co., Inc., P. O. Box 376, 3d & Sumach, Walla Walla, Wash. (H-Hvy)
 Willamette Tug & Barge Co., Box 2650, Portland 3, Oreg. (Hvy)
 Williams Constr. Co., Rt. 1, Box 21, Tigard, Oreg. (H-Hvy-RR)
 Yett, Porter W., 6500 N. E. Ainsworth St., Portland 13, Oreg. (H-Hvy-RR)
 Yocom, O. C., 902 S. E. 11th St., P. O. Box 566, McMinnville, Oreg. (H-Hvy)

(b) PORTLAND CHAPTER, BUILDING DIVISION

President—F. H. Reimers, Reimers & Jolivet, 435 Builders Exch. Bldg., Portland 4, Oreg.
Secretary-Treasurer—J. M. Seudder, 418 Pittock Block, Portland 5, Oreg.
Telephone: Atwater 5054

Burns, Tom, & Co., Inc., 2940 S. E. Belmont, Portland 15, Oreg. (B)
 Drake, Donald M., Co., The, 904 Lewis Bldg., Portland 4, Oreg. (B)
 Halvorson, Carl M., Inc., 218 Builders Exch. Bldg., Portland 4, Oreg. (B)
 Hammond, Ross B., Co., 1241 N. Williams Ave., P. O. Box 3901, Portland 8, Oreg. (B)
 Hoffman, L. H., 715 S. W. Columbia St., Portland 1, Oreg. (B)
 Hoffman, Lee, 535 S. E. Water St., P. O. Box 2028, Portland 14, Oreg. (B)
 Industrial Engrs. & Contrs., Inc., 519-520 Failing Bldg., Portland 4, Oreg. (B)
 Isackson, Geo., Co., 1825 S. E. Exeter Dr., Portland, Oreg. (B)
 Johnson, Chas. J., 2002 S. E. Clinton, Portland 4, Oreg. (B)
 Lorenz Bros., 603 Title & Trust Bldg., Portland 2, Oreg. (B)
 Mason, Henry M., Co., Inc., 2206 N. W. Thurman, Portland 10, Oreg. (B)

Petersen, A. V., Co., 2827 N. E. Glisan St., Portland 12, Oreg. (B)
 Ralph & Horwitz, 1835 N. Flint Ave., Portland 12, Oreg. (B)
 Reimers & Jolivet, 435 Builders Exch. Bldg., Portland 4, Oreg. (B)
 Robertson, Hay & Wallace, 1801 S. E. Grand Ave., Portland 14, Oreg. (B)
 Robson, R. M., P. O. Box 5085, Portland 13, Oreg. (B)
 Settergren, E. E., 308 Henry Bldg., Portland, Oreg. (B)
 Timber Structures, Inc., P. O. Box 3782, Portland 8, Oreg. (B)
 Viesko & Post, P. O. Box 69, Salem, Oreg. (B)
 Waale-Camplan Co., 2100 S. W. Jefferson St., Portland 1, Oreg. (B)
 Wegman & Co., 716 N. E. 3d Ave., Portland 14, Oreg. (B)

37. PENNSYLVANIA

(a) PENNSYLVANIA BUILDERS CHAPTER

President—Ralph M. Ritter, Ritter Bros., 1511 N. Cameron St., Harrisburg, Pa.
Executive Director—Geo. M. Schmeltzer, 2501 N. Front St., Harrisburg, Pa.
Telephone: 4-8056

Alexander, H. B., & Son, Inc., 315 Vaughn St., Harrisburg, Pa. (B)
 Austin, E. E., & Son, 20th & Reed Sts., Erie, Pa. (B)
 B. D. & W., Inc., P. O. Box 63, Carlisle, Pa. (B)
 Bell, W. S., 119 Albright Ave., Greenawalds, Allentown, Pa. (B)
 Berkebile Bros., 626 Swank Bldg., Johnstown, Pa. (B)
 Berretta Constr. Co., 246 Harland St., Exeter, Pa. (B)
 Carstensen, Inc., 302 Swank Bldg., Johnstown, Pa. (B)
 Coon, B. G., Constr. Co., 278 Union St., Luzerne, Pa. (B)
 Cump, Earl L., 251 Park Ave., Chambersburg, Pa. (B)
 Cuppels, F. J., 470 Tioga St., Kingston, Pa. (B)
 Curtis-Pethick Co., The, 1 Hickory St., Wilkes-Barre, Pa. (B)
 Davis, C. C., Constr. Co., Rear 220 Bridge St., New Cumberland, Pa. (B)
 Evert, S. H., Co., Inc., Danville Rd., P. O. Box 89, Bloomsburg, Pa. (B)
 Focht, L. H., & Son, Inc., 402 Baer Bldg., Reading, Pa. (B)
 Gehron, Jacob, Co., Inc., The, 607 Cemetery St., Williamsport 33, Pa. (B)
 Hafer, Guy J., 739 Fairground Ave., Chambersburg, Pa. (B)
 Hedden, Raymon R., P. O. Box 109, Alden Rd., Nanticoke, Pa. (B)
 Helwig, Fred R., 801 State St., Millersburg, Pa. (B)
 Hunsicker, L. W., Co., 821 Chew St., Allentown, Pa. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

PENNSYLVANIA—Continued

Kline, Boyd H., Berwick Rd., Bloomsburg, Pa. (B)
 Lentz, John P., 463 E. Main St., Dallastown, Pa. (B)
 Machin, E. C., Inc., 1024 N. Quebec St., Allentown, Pa. (B)
 Mastriani, S. G., Co., 522 Lincoln Trust Bldg., Scranton, Pa. (B)
 McKinney Constr. Co., Chestnut & Awt Sts., Sunbury, Pa. (B)
 Mowery, Raymond S., 626 N. Hanover St., Carlisle, Pa. (B)
 Nanticoke Constr. Co., 120 Arch St., Nanticoke, Pa. (B)
 Noonan, R. S., Inc., 26 N. Duke St., York, Pa. (B)
 Orr, J. C. & Son, 438 7th Ave., Altoona, Pa. (B)
 Ortmann & Reitze, P. O. Box 448, Meadville, Pa. (B)
 Outdoor Display Co., 26 E. Market St., Lewistown, Pa. (B)
 Reindollar, I. & Son, 35 N. George St., York, Pa. (B)
 Ritter Bros., 1511 N. Cameron St., Harrisburg, Pa. (B)
 Seiple, Stanford C., 809 N. 7th St., Sunbury, Pa. (B)
 Sessinghaus & Ostergaard, Inc., 1115 Peach St., Erie, Pa. (B)
 Shenk, Henry, Co., 1115 Sassafras St., Erie, Pa. (B-Hvy)
 Sordani Constr. Co., Inc., 45 Owen St., Forty Fort, Wilkes-Barre, Pa. (B-Hvy)
 Stoudt, H. E. & Son, Inc., 1212 S. 5th St., Allentown, Pa. (B)
 Tabone & Barbera, 186 N. Main St., Pittston, Pa. (B)
 Upton-Lang Co., 1009 Commerce Bldg., Erie, Pa. (B)
 Warner, A. R. & Son, 41 E. Main St., Waynesboro 41, Pa. (B)
 Whalen, Jos. T., Inc., 613 E. Market St., Pottsville, Pa. (B)
 Williams, H. A., 437 N. 23d St., Allentown, Pa. (B)
 Wilson Constr. Co., Inc., 305 Bedford St., Johnstown, Pa. (B)
 Yenter, J. C., Pennsylvania Ave., Tyrone, Pa. (B)

(b) MASTER BUILDERS ASSOCIATION OF ALLEGHENY COUNTY

President—Noble J. Dick, Dick Constr. Co., 2532 Library Rd., Pittsburgh 10, Pa.
Secretary—Wm. C. Bowden, 800 Standard Life Bldg., Corner of 4th Ave. & Smithfield St., Pittsburgh 22, Pa.
Telephone: Atlantic 1-2594
 Allegheny Bldg. & Supply Co., 9th & Bingham Sts., Pittsburgh 3, Pa. (B)
 Bloedel, H. A., 3720 Ruggles St., Pittsburgh 14, Pa. (B)
 Busse, Henry, 112 Wabash St., Pittsburgh 20, Pa. (B)
 Chilli, Geo. H., 1st Natl. Bk. Bldg., Homestead, Pa. (B)

Crump, Edw., Jr., Inc., 4031 Bigelow Blvd., Pittsburgh 13, Pa. (B)
 Dick Constr. Co., 2532 Library Rd., Pittsburgh 10, Pa. (B)
 Eichleay Corp., 33 S. 19th St., Pittsburgh 3, Pa. (B)
 Goodwin, C. J., 6201 Station St., Pittsburgh 6, Pa. (B)
 Groomes Constr. Co., 202 Highland Ave., Cheswick, Pa. (B)
 Hoffman, F. Co., 901 Wood St., Wilkesburg 21, Pa. (B)
 Landau Bros. Bldg. Co., 125 1st Ave., Pittsburgh 22, Pa. (B)
 Martin & Neitroun Contr. Co., Pitt Bk. Bldg., Pittsburgh 22, Pa. (B)
 Martin, O. H., Co., 18 1st St., Sharpsburg, Pittsburgh 15, Pa. (B)
 Mellon-Stuart Co., 210 E. Park Way, Pittsburgh 12, Pa. (B)
 Minnotte Bros. Co., Riverton St. & Baldwin Rd., Hays, Pittsburgh, Pa. (B)
 Morgan & Co., 439 8th Ave., Homestead, Pa. (B)
 Navarro Corp., 6219 Broad St., Pittsburgh 6, Pa. (B)
 Ragner-Benson, Inc., 801 Investment Bldg., Pittsburgh 22, Pa. (B)
 Riffle, David T., Inc., 1006 Forbes St., Pittsburgh 19, Pa. (B)
 Robison Constr. Co., 419 Melwood St., Pittsburgh 13, Pa. (B)
 Seaman, Geo. M. & Co., 5145 Liberty Ave., Pittsburgh 24, Pa. (B)
 Siesel Constr. Co., 204 Flannery Bldg., Pittsburgh 13, Pa. (B)
 Trimble Co., The, 1719 Pennsylvania Ave., Pittsburgh 12, Pa. (B)
 Uhl Constr. Co., 6001 Butler St., Pittsburgh 1, Pa. (B)
 Unkefer Bros. Constr. Co., 307 Professional Bldg., Pittsburgh 22, Pa. (B)
 Wehr, Edw. A., Highland Bldg., Pittsburgh 6, Pa. (B)
 Wilcox, Ira C., Co., 6415 Hamilton Ave., Pittsburgh 6, Pa. (B)
 Winner, B. L., Co., Inc., 2440 Maple Ave., Pittsburgh 14, Pa. (B)

(c) CONSTRUCTORS ASSOCIATION OF WESTERN PENNSYLVANIA

President—Roy F. O'Mara, Allegheny Asphalt & Paving Co., 8th & Bingham Sts., Pittsburgh 3, Pa.
Executive Secretary—Thurman C. Tejan, 805 Columbia Bk. Bldg., Pittsburgh 22, Pa.
Telephone: Court 1-2888

Allegheny Asphalt & Paving Co., 8th & Bingham Sts., Pittsburgh 3, Pa. (H)
 Allen, H. R., Beaver, Pa. (H)
 Baldwin Bros. Paving Co., 1690 Union Commerce Bldg., Cleveland, Ohio (H)
 Barth Constr. Co., 4400 Butler St., Pittsburgh, Pa. (H)
 Beaver Asphalt Paving & Constr. Co., New Brighton, Pa. (H)
 Becksmith Engr. Co., Union Trust Bldg., Pittsburgh, Pa. (H)
 Ben Constr. Co., 101 Hargrove St., Pittsburgh 26, Pa. (H-Hvy)

Booth & Flinn Co., 1942 Forbes St., Pittsburgh 19, Pa. (H-Hvy)
 Boquet Constr. Co., Inc., 4662 Old Boston Rd., Pittsburgh 10, Pa. (H)
 Bortz & Bortz Coal Co., Stoneboro, Pa. (H)
 Brotemarkle, S. T., Constr. Co., P. O. Box 393, Cumberland, Md. (H)
 Bryan, Frank, Inc., 1623 Chartiers Ave., McKees Rocks, Pa. (Hvy)
 Burrell Constr. & Supply Co., 1 5th St., New Kensington, Pa. (H)
 Cafardi, A. R., 116 Craft Ave., Pittsburgh 13, Pa. (H)
 Casey, John F., Co., P. O. Box 1888, Pittsburgh 30, Pa. (Hvy-RR)
 Cornish Constr. Co., 214 Alexander Ave., Greensburg, Pa. (H)
 Corol Constr. Corp., 509 N. Homewood Ave., Pittsburgh 8, Pa. (H)
 Craft Constr. Co., 215 Lothrop St., Pittsburgh, Pa. (H)
 Dinardo, Inc., 331 Bouquet St., Oakland Sta., Pittsburgh 13, Pa. (H-Hvy)
 Diulus Constr. Co., Inc., 4610 Barland Dr., Mt. Lebanon, Pittsburgh 10, Pa. (H)
 Donatelli, Frank, Co., Inc., 205 N. Highland Ave., Pittsburgh 6, Pa. (H-Hvy)
 Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy-RR)
 Eidemiller, Adam, Greensburg, Pa. (H)
 Ferguson & Edmondson Co., 412 Keystone Bldg., Pittsburgh 22, Pa. (H-Hvy-RR)
 Freeland Constr. Co., 402 Keystone Bldg., Pittsburgh 22, Pa. (H-Hvy)
 Galiardi Constr. & Supply Co., 801 2d Natl. Bk. Bldg., Connellsville, Pa. (H)
 Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
 Hazelwood, Geo. F. Co., Inc., The, 36 Howard St., Cumberland, Md. (H)
 Holmes Constr. Co., The, Wooster, Ohio (H-Hvy)
 Istock, Nick, 704 Ann St., Aliquippa, Pa. (H)
 Jacobsen, Carl J., 1840 Cecil St., Sharpsburg, Pa. (Hvy)
 Jacobson, Bert A., Co., 2004 Law & Finance Bldg., Pittsburgh 19, Pa. (Hvy)
 Kelley & Meyer Co., The, 1211 Gibson St., Youngstown, Ohio (H)
 Kline & Schmidt, Monaca, Pa. (H)
 Latrobe Constr. Co., P. O. Box 150, Latrobe, Pa. (H-Hvy)
 M & S Constr. Co., Inc., 5 Panama Lodge Dr., Pittsburgh 27, Pa. (H-Hvy)
 Mannella, Frank, Constr. Co., 7003 Chaucer St., Pittsburgh 8, Pa. (Hvy)
 Marion Coal & Supply Co., Jones Law Bldg., Pittsburgh, Pa. (Hvy)
 Mashuda, Frank, Co., 5556 W. Roosevelt Dr., Milwaukee 10, Wis. (Hvy)
 McCrady Constr. Co., 304 Ross St., Pittsburgh 19, Pa. (H-Hvy-RR)
 McQuade, Jas. H., & Sons Co., 417 Grant St., Pittsburgh 19, Pa. (H)
 McShane, F. L., Contr. Co., 1105 Washington Rd., Pittsburgh 16, Pa. (H)
 Mountaineer Engr. Co., Inc., Sharon Grade Rd., R. D. 1, Coraopolis, Pa. (Hvy)
 Nardulli & Sons Co., Inc., 947 Butler St., Pittsburgh 23, Pa. (H)

PENNSYLVANIA—Continued

O'Herron, M., Co., 4002 Lorigan St., Pittsburgh 24, Pa. (H-Hvy)
 Patterson, Frank O., Monongahela, Pa. (H)
 Pavia Co., The, Verona Rd., Verona, Pa. (H)
 Perini, B., & Sons, Inc., P. O. Box 8157, Squirrel Hill Sta., Pittsburgh, Pa. (H-Hvy)
 Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa. (Hvy)
 Pittsburgh Industrial Engr. Co., 3939 Butler St., Pittsburgh 1, Pa. (Hvy)
 Plummer, J. Lee, Inc., Beaver Rd., Sewickley, Pa. (H)
 Porterfield-Binger Co., Youngstown, Ohio (H)
 Ragner Bros., Grant Bldg., Pittsburgh 19, Pa. (H)
 Reason, Edw., 1446 Greenmount Ave., Pittsburgh 16, Pa. (H)
 Rider Constr. Co., Charleroi, Pa. (H)
 Rupp, A. L. & R. J., Box 81, Kittanning, Pa. (H)
 Sanctis Constr., Inc., 410 Marlowe St., Pittsburgh 20, Pa. (H-Hvy)
 Vang, Geo., Inc., Grant Bldg., Pittsburgh 19, Pa. (H-Hvy-RR)
 Wandel, Bruce B., 1615 Bidwell St., Pittsburgh, Pa. (Hvy)
 Wilkins Constr. Co., 6330 Wilkins Ave., Pittsburgh, Pa. (Hvy)
 Yount, R. F., Co., Box 101, Kittanning, Pa. (H)

(d) PHILADELPHIA CHAPTER

President—Gerhard J. Lauter, Lauter Constr. Co., 112 S. 16th St., Philadelphia 2, Pa.
Secretary—Harry P. Taylor, Suite 210, Architects Bldg., 17th & Sansom Sts., Philadelphia 3, Pa.
Telephone: Rittenhouse 6-4606 & 4607

Bachmann, Geo., Co., 21 N. 30th St., Camden 5, N. J. (B)
 Baker, Wm. D. Co., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Ballinger, R. C. Co., 1612 Market St., Philadelphia 3, Pa. (B)
 Baton, Henry E., Inc., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Brennenman, J. E., Co., North American Bldg., Philadelphia 7, Pa. (B-Hvy)
 Brosz, Paul, & Sons, Inc., 2511 W. Huntingdon St., Philadelphia 32, Pa. (B)
 Campion, F. K., 1905 Spring Garden St., Philadelphia 30, Pa. (B)
 Clearkin, Jas. J., 4450 Leiper St., Philadelphia 24, Pa. (B)
 Cornell, J. S., & Son, Inc., 1528 Cherry St., Philadelphia 2, Pa. (B)
 Davis, F. B., Sons, 240 N. 16th St., Philadelphia 2, Pa. (B)
 Day & Zimmermann, Inc., Packard Bldg., Philadelphia 2, Pa. (B)
 Durell, E. Clifford, & Son, Inc., 1910 N. Marshall St., Philadelphia 22, Pa. (B)
 Eddleman, C. C., 419 Green Lane (Roxborough), Philadelphia 28, Pa. (B)

English, Frank G., & Sons, 1606 N. Carlisle St., Philadelphia 21, Pa. (B)
 Evans, Geo. H., & Co., 1914 Spring Garden St., Philadelphia 30, Pa. (B)
 Farrell, Jos. R., 4422 Market St., Philadelphia 4, Pa. (B)
 Fleming Co., 1717 Sansom St., Philadelphia 3, Pa. (B)
 Gill, Harry, Co., 2513 Germantown Ave., Philadelphia 33, Pa. (B)
 Golder Constr. Co., Inc., Market St. Natl. Bk. Bldg., Philadelphia 7, Pa. (B)
 Goldman, Perry J., Constr. Co., Lewis Tower Bldg., 15th & Locust Sts., Philadelphia 2, Pa. (B)
 Grau, H. C., Sr., 4019 Sansom St., Philadelphia 4, Pa. (B)
 Hallahan, John P., Inc., 1602 Finance Bldg., Philadelphia 2, Pa. (B)
 Haverstick-Borthwick Co., 1505 Race St., Philadelphia 2, Pa. (B)
 Herzog, Ralph S., Inc., 1505 Race St., Philadelphia 2, Pa. (B)
 Horst, Henry W., Co., 1505 Race St., Philadelphia 2, Pa. (B-Hvy)
 Hughes-Foulkrod Co., 1505 Race St., Philadelphia 2, Pa. (B)
 Hunt, David M., Otis Bldg., 112 S. 16th St., Philadelphia 2, Pa. (B)
 Irwin & Leighton, 1505 Race St., Philadelphia 2, Pa. (B)
 Keefer, E. H., & Son, 1321 Rodman St., Philadelphia 47, Pa. (B)
 Kidde, Walter, Constr., Inc., 140 Cedar St., New York 6, N. Y. (B)
 Kuljian Corp., 1200 N. Broad St., Philadelphia 21, Pa. (B)
 Lamb, Robt. E., & Son, Inc., 3429 W. Indiana Ave., Philadelphia 32, Pa. (B)
 Larkin, Frank J., Constr. Co., 1520 Parrish St., Philadelphia 30, Pa. (B)
 Lauter Constr. Co., 112 S. 16th St., Philadelphia 2, Pa. (B)
 Linker, Wm., Co., Inc., 2036 Arch St., Philadelphia 3, Pa. (B)
 Lotz, Wm. F., 4700 Frankford Ave., Philadelphia 24, Pa. (B)
 M. & L. Constr. Co., 108 S. 40th St., Philadelphia 4, Pa. (B)
 Master Masons Constr. Co., 1619 W. Thompson St., Philadelphia 21, Pa. (B)
 McQuade, John S., Jr., 1318-20-22 Parrish St., Philadelphia 23, Pa. (B)
 McShain, Inc., 17th & Spring Garden, Philadelphia, Pa. (B)
 Murphy-McDonnell Co., 104 69th St. Theatre Bldg., Upper Darby, Pa. (B)
 Murphy-Quigley & Co., 1518 Sansom St., Philadelphia 2, Pa. (B)
 Murrell Constr. Co., 1516 W. Thompson St., Philadelphia 21, Pa. (B)
 Nason & Cullen, 6326 Market St., Philadelphia 39, Pa. (B)
 Rafferty, John E., Jr., Inc., 615 Widener Bldg., Philadelphia 7, Pa. (B)
 Reiff, Daniel L., 15 E. Airy St., Norristown, Pa. (B)
 Robbins, John A., Co., Inc., 10 S. 18th St., Philadelphia 3, Pa. (B)
 Rohleder, Chas. F., 600 Schuylkill Ave., Philadelphia 46, Pa. (B)

Rosengarten & Co., 10 S. 18th St., Philadelphia 3, Pa. (B)
 Rosengarten, Howard D., 2006 Chancellor St., Philadelphia 3, Pa. (B)
 Sauter, Godfrey, 1505 Race St., Philadelphia 2, Pa. (B)
 Schwertner, Chas. H., & Son, 1220 Hamilton St., Philadelphia 23, Pa. (B)
 Shaffer, Leonard, Co., 926 Walnut St., Philadelphia 2, Pa. (B)
 Shandles, H. M., 617 Pine St., Philadelphia 6, Pa. (B)
 Shoemaker, R. M., 1619 Sansom St., Philadelphia, Pa. (B)
 Smith & Buzby, 269 S. Van Pelt St., Philadelphia 3, Pa. (B)
 Smolark, J. A., Ft. Washington, Pa. (B)
 Steele, Donald M., 661 Drexel Bldg., Philadelphia 6, Pa. (B)
 Steele, Jack S., Co., 522 Commercial Trust Bldg., Philadelphia 2, Pa. (B)
 Steele, Pownall & Gebhardt, Rm. 426, 1505 Race St., Philadelphia 2, Pa. (B)
 Stofflet & Tillotson, 2043 Eastburn Ave., Philadelphia 38, Pa. (B)
 Townsend & Elfreth Co., 1601 Chestnut St., Philadelphia 3, Pa. (B)
 Turner Construction Co., 1500 Walnut St., Philadelphia 2, Pa. (B)
 United Bldg. Constr. Co., 845 N. 19th St., Philadelphia 30, Pa. (B)
 Unkefer Bros. Constr. Co., Otis Bldg., Philadelphia 2, Pa. (B)
 Wallace, Wm., 337 S. Camac St., Philadelphia 7, Pa. (B)
 Wambold, Edgar M., 201 N. Broad St., Philadelphia 7, Pa. (B)
 Wark & Co., 1920 Sansom St., Philadelphia 3, Pa. (B)
 Warren, F. V., Inc., 925 W. Thompson St., Philadelphia 22, Pa. (B)
 White, Barclay, & Co., Inc., 22 N. 36th St., Philadelphia 4, Pa. (B)
 Wigton-Abbott Corporation, 1225 South Ave., Plainfield, N. J. (B)
 Wilson, Frank H., 125 Coulter Bldg., Ardmore, Pa. (B)
 Wininger & Selby, Inc., 10 Rockefeller Plaza, New York 20, N. Y. (B)
 Wintz, Frank I., & Son, 1618 N. 27th St., Philadelphia 21, Pa. (B)
 Yellin, S., & Son, Inc., 222 N. 11th St., Philadelphia 7, Pa. (B)

38. RHODE ISLAND

(a) RHODE ISLAND CHAPTER

President—Alvan B. Conway, Rowley Constr. Co., 260 Central Ave., Pawtucket, R. I.
Secretary—Frederick E. Bowerman, Bowerman Bros., 70 Bath St., Providence 8, R. I.
 Ahlborg, O., & Sons, Inc., 48 Molter St., Cranston, R. I. (B)
 Argentieri Constr. Co., 49 Weybosset St., Providence 3, R. I. (B)
 Beals, A. C., Co., 63 Bassett St., Providence 3, R. I. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

RHODE ISLAND—Continued

Bowerman Bros., 70 Bath St., Providence 8, R. I. (B)
 Brien Bldg. Co., Inc., 144 Court Sq., Woonsocket, R. I. (B)
 Central Engr. & Constr. Co., 210 Main St., Pawtucket, R. I. (B-Hvy)
 Coleman Constr. Co., Inc., 49 Westminster St., Providence 3, R. I. (B)
 Collins, H. V., 7 Dyer St., Providence 3, R. I. (B)
 Dimeo Constr. Co., 75 Westminster St., Providence 3, R. I. (B)
 Flynn, Jos. P., 26 Custom House St., Providence 7, R. I. (B)
 Gilbane Bldg. Co., 90 Calverly St., Providence, R. I. (B-Hvy)
 Gustafson, Frank N., & Sons, Inc., 251 Pitman St., Providence 6, R. I. (B)
 Hope Bldg. Co., Inc., Box 358, Providence 3, R. I. (B)
 Marshall, J. L., & Sons, Inc., 560 York Ave., Pawtucket, R. I. (Hvy)
 Middleton, G. W., 36 Exchange Pl., Providence, R. I. (B)
 Purington, O. D., Co., Inc., 171 Westminster St., Providence, R. I. (B)
 Rowley Constr. Co., 260 Central Ave., Pawtucket, R. I. (B)
 Sinclair, John M., 44 Burlington St., Providence 6, R. I. (B)
 Smiley, A. F., Constr. Co., 115 Trenth St., Pawtucket, R. I. (B)
 Soule, Henry M., Co., 425 Walcott St., Pawtucket, R. I. (B)
 Turgeon, E., Constr. Co., Inc., 42 Weybosset St., Providence 3, R. I. (B)

39. SOUTH CAROLINA

See Carolinas Branch (page 261)

40. SOUTH DAKOTA

(a) HIGHWAY CONSTRUCTION INDUSTRY OF SOUTH DAKOTA, INC.

President—H. F. Emme, H. F. Emme Constr. Co., Box 1311, Rapid City, S. Dak.

Secretary—W. S. Hannan, Sr., 102 S. Pierre St., P. O. Box 467, Pierre, S. Dak.

Telephone: 2994

Alexander Constr. Co., 4641 Hiawatha Ave., Minneapolis 6, Minn. (H)
 Ashworth & Son Co., 3601 Alabama Ave., Minneapolis 16, Minn. (H)
 Bartholow, W. E., & Son Constr. Co., 8 Masonic Bldg., Huron, S. Dak. (H)
 Beckman, J. H., Constr. Co., 1730 S. 10th Ave., Sioux Falls, S. Dak. (H)
 Bonesteel & Hyde, Box 132, Pierre, S. Dak. (H)
 Bradbury, P. A., Constr. Co., Box 636, Aberdeen, S. Dak. (H)
 Central Constr. Co., W. 12th St., P. O. Box 252, Sioux Falls, S. Dak. (H)
 Chase Constr. Co., Box 9, Rapid City, S. Dak. (H)
 Christle, Richard H., Wasta, S. Dak. (H)
 Craig, Jay W., Co., 1814 N. E. California St., Minneapolis 13, Minn. (H)

Creager Bros. Constr. Co., Fort Pierre, S. Dak. (H)
 Emme, H. F., Constr. Co., Box 1311, Rapid City, S. Dak. (H)
 Gustafson, Dave, & Co., Inc., 502 E. 6th St., Sioux Falls, S. Dak. (H)
 Gustafson, S. E., Constr. Co., W. 12th St., Box 453, Sioux Falls, S. Dak. (H)
 Haggart Constr. Co., The, Box 1310, Fargo, N. Dak. (H)
 Harris Constr. Co., Faulkton, S. Dak. (H-RR)
 Healy, J. L., Constr. Co., 301 Western Surety Bldg., Sioux Falls, S. Dak. (H)
 Hector Constr. Co., Inc., Hector, Minn. (H)
 Herr, Albert, Constr. Co., Webster, S. Dak. (H)
 Holzworth Constr. Co., P. O. Box 158, 1st Natl. Bk. Bldg., Miles City, Mont. (H)
 Inland Constr. Co., P. O. Box 790, Rapid City, S. Dak. (H-Hvy-RR)
 Johnson, H. W., Dakota Ave., So., P. O. Box 232, South Sioux City, Nebr. (H)
 Kiewit, Peter, Sons' Co., North Western Warehouse Bldg., 413 6th St., Rapid City, S. Dak. (B-H-Hvy-RR)
 Lien, C. H., Constr. Co., Inc., Box 1807, Rapid City, S. Dak. (H)
 Lindekugel & Sons Rd. Constr. Co., Spencer, S. Dak. (H)
 Moore Constr. Co., 911 Clark St., Rapid City, S. Dak. (H)
 Mulloy, Chas. J., & Sons, Sturgis, S. Dak. (H)
 Murphy-Smestad Constr. Co., 1337 Broadway, Fargo, N. Dak. (H)
 Noel, W. H., Co., Jamestown, N. Dak. (H)
 Northwestern Engr. Co., 1311 St. Joe St., Box 1392, Rapid City, S. Dak. (H-Hvy)
 Parker, W. J., Constr. Co., 614 Standard Oil Bldg., Omaha 2, Nebr. (H)
 Rand Constr. Co., Box 1529, Rapid City, S. Dak. (B-H)
 Richardson, Lou, Box 513, Miles City, Mont. (H)
 Roberts, S. S., Constr. Co., Box 1126, Rapid City, S. Dak. (H)
 Rounds, Dean R., 1017 Fulton St., Rapid City, S. Dak. (H)
 Rue Constr. Co., Box 834, Bismarck, N. Dak. (Hvy)
 Schnuerle, A. W., Riverside Rd., Box 634, Aberdeen, S. Dak. (H)
 Sorenson, J. C., Trent, S. Dak. (H)
 Stapp, Floyd D., Box 1211, Rapid City, S. Dak. (H)
 Summit Constr. Co., P. O. Box 1609, Rapid City, S. Dak. (H)
 Tennesfos Constr. Co., 1205 S. 9th St., Box 1363, Fargo, N. Dak. (H)
 Wagner, C. A., Constr. Co., 230 E. 8th St., Sioux Falls, S. Dak. (H-Hvy)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H-Hvy-RR)

Local Members

Carlson, Henry, Company, Sioux Falls, S. Dak. (B)
 Sioux Falls Construction Company, 800-820 S. 7th Ave., Sioux Falls, S. Dak. (B-Hvy-RR)

41. TENNESSEE

MISSISSIPPI VALLEY FLOOD CONTROL BRANCH

See Mississippi (page 254)

(a) CHATTANOOGA CHAPTER

President—John Martin, Sr., John Martin Co., Inc., 610 W. Manning St., Chattanooga, Tenn.

Counsel—Jere T. Tipton, 1033 Volunteer State Life Bldg., Chattanooga, Tenn.

Telephone: 7-1191

Allen, Robt. L., 406 Forest Ave., Chattanooga, Tenn. (B-H)
 Brown Bros., P. O. Box 946, Chattanooga 1, Tenn. (H-Hvy)
 Brown, Dave L., 1800 Central Ave., Chattanooga, Tenn. (H-Hvy)
 Collins & Hobbs, 401½ Tennessee Ave., Chattanooga, Tenn. (B)
 Combs Constr. Co., 1077 Duncan Ave., Chattanooga, Tenn. (H-Hvy)
 Lindsey-Davis Co., 401 N. Market St., Chattanooga, Tenn. (B)
 Martin, John, Co., Inc., 610 W. Manning St., Chattanooga, Tenn. (B)
 Parks, John, Co., Hamilton Bk. Bldg., Chattanooga, Tenn. (B)
 Parks, T. U., Co., 1700 Kirby Ave., Chattanooga, Tenn. (B)
 Payne & Harris Constr. Co., 1077 Duncan Ave., Chattanooga, Tenn. (B-H-Hvy)
 Scott, R. P., Contr. Co., 1801 Polk St., Chattanooga, Tenn. (H-RR)
 Stein Constr. Co., 1077 Duncan Ave., Chattanooga, Tenn. (Hvy)
 Verhey Constr. Co., 207 N. Holly St., Chattanooga, Tenn. (B)
 Warlick, L. A., Contr. Co., 747 E. 11th St., Chattanooga, Tenn. (B)
 Wilson, Mark K., Co., 43 Chamberlain Bldg., Chattanooga, Tenn. (B-H)

(b) KNOXVILLE CHAPTER

President—J. E. Willard, Johnson & Willard, P. O. Box 174, Knoxville 2, Tenn.

Secretary—Chas. S. Badgett, Jr., 1011-12 Burwell Bldg., Knoxville, Tenn.

Telephone: 4-6576

Bowman, Dave, Constr. Co., P. O. Box 509, 980 N. Broadway, Knoxville, Tenn. (B)
 Daugherty & Waters, P. O. Box 97, Knoxville 1, Tenn. (B)
 Dunn, J. M., & Son, 245 Broadway, Knoxville 17, Tenn. (B)
 Emory & Richards, Central & Quincy, Knoxville 17, Tenn. (B)
 Harrison Constr. Co., Maryville, Tenn. (B)
 Hicks, Fred E., Constr. Co., 205 Flatiron Bldg., Knoxville 17, Tenn. (B)
 Johnson & Willard, P. O. Box 174, Knoxville 2, Tenn. (B)
 McMurray, A. R., Constr. Co., 1418 Western Ave., Knoxville, Tenn. (B)
 Nicholson, V. L., Co., Box 2386, Knoxville 12, Tenn. (B)

A.G.C. DIRECTORY

TENNESSEE—Continued

Roehl Constr. Co., 625 Atchley St., Knoxville, Tenn. (B)
 Rogers, Howard E., 512 Proctor St., Knoxville 17, Tenn. (B)
 Walters & Prater, P. O. Box 478, Morristown, Tenn. (B)
 Weiss, R. L., & Son, W. Highland Dr., Fountain City, Tenn. (B)

(c) MEMPHIS CHAPTER

President—Sol Lipman, Tri-State Constr. Co., 1303 Three Sisters Bldg., Memphis 3, Tenn.
Secretary-Manager—W. W. MacLaughlin, Jr., 320 S. Dudley, Memphis, Tenn.
Telephone: 32-1721

Alamo Constr. Co., Alamo, Tenn. (B-H)
 Brogdon Bros., 184 Neil, Memphis, Tenn. (B)
 Building Constrs., Inc., 1850 Union Ave., Apt. # 2, Memphis 3, Tenn. (B)
 Clark & Fay, Inc., 4920 Poplar Ave., Memphis, Tenn. (B)
 Cobb, J. E., Jr., Constr. Co., 311 W. Olive, P. O. Box 2642, DeSoto Sta., Memphis, Tenn. (B)
 Consolidated Contrs., Inc., 1489 Thomas St., P. O. Box 237, Memphis 1, Tenn. (B-H-Hvy)
 Creson, R. F., & Co., 741 S. Cox St., Memphis 4, Tenn. (B)
 Crouch, Robt. C., & Co., Sterick Bldg., Memphis 4, Tenn. (B)
 Dougherty-Liddell Constr. Co., P. O. Box 2839, DeSoto Sta., Memphis 2, Tenn. (B-Hvy)
 Fulghum, Geo. A., & Co., 1045 Galloway, Memphis, Tenn. (B)
 Giem, Seth E., & Assos., 801 Roland, Memphis, Tenn. (B)
 Irwin, Robt. L., 166 Monroe Ave., Memphis, Tenn. (B)
 Jameson, P. W., Constr. Co., 611 N. Holmes Ave., Memphis, Tenn. (B)
 Johnson-Hearn Constr. Co., Mobile Ave. & N. C. & St. L. R. R., Jackson, Tenn. (B)
 L & M Constr. Co., P. O. Box 78, Memphis, Tenn. (B-H)
 Lashlee-Rich Lumber Co., Inc., 1100 W. Main St., Humboldt, Tenn. (B)
 Lee Constr. Co., 402 Goodwyn Institute, Memphis, Tenn. (B)
 Lee, Frank H., & Co., 217 Bond St., West Memphis, Ark. (B)
 Madewell & Mock Constr. Co., 1336 Madison Ave., Memphis, Tenn. (B)
 Maury, Sam P., Constr. Co., P. O. Box 231, Memphis 1, Tenn. (B)
 Maury & Wedaman, 2489 Parkway Pl., Memphis, Tenn. (B)
 McCrory, C. E., Constr. Co., 2948 Summer Ave., Memphis, Tenn. (B)
 McGuire, H. A., & Co., 413 Monroe Ave., Memphis 3, Tenn. (B)
 McNeese Constr. Co., 644 Commerce Title Bldg., Memphis 3, Tenn. (B)
 Meers, E. W. G., Constr. Co., 166 Monroe Ave., Memphis 3, Tenn. (B)

Mid-South Contrs., Inc., 401 McCall Bldg., Memphis, Tenn. (B)
 Mississippi Valley Engr. & Constr. Co., 736 Alabama, Memphis, Tenn. (B-Hvy)
 O'Brien, John M., 1537 Overton Park Ave., Memphis, Tenn. (B)
 Owen, Hubert M., Constr. Co., Inc., 373 N. Cumberland St., Jackson, Tenn. (B)
 Powell, L. D., Constr. Co., 728-29 M & M Bldg., Memphis 3, Tenn. (B-Hvy)
 S & W Constr. Co., Shrine Bldg., Memphis 3, Tenn. (B-H-Hvy)
 Sharpe, W. L., Contr. Co., 2074 York Ave., Memphis, Tenn. (H-Hvy-RR)
 Smith, Brantley P., Co., P. O. Box 666, Jackson, Tenn. (B)
 Tri-State Constr. Co., 1303 Three Sisters Bldg., Memphis 3, Tenn. (B)
 Turner Constr. Co., 1020 Columbian Mutual Tower, Memphis, Tenn. (B)
 Tvedt, L. A., 10 N. Main Bldg., Memphis, Tenn. (B-H-Hvy)
 United Constr. Co., 727 N. Parkway, Memphis, Tenn. (B)
 Wessell Constr. Co., 388 N. Front St., Memphis 7, Tenn. (B)
 Young, Fred, 166 Monroe Ave., Memphis, Tenn. (B)

(d) NASHVILLE CHAPTER

President—J. A. Kelly, J. A. Kelly Co., 1419 Church St., Nashville 3, Tenn.
Secretary—R. L. Alexander, 624 Stahlman Bldg., Nashville 3, Tenn.
Telephone: 6-1177

Boone Contr. Co., 540 3d Natl. Bk. Bldg., Nashville 3, Tenn. (B)
 Condra, R. M., Maxwell House, Nashville 3, Tenn. (B)
 Foster & Creighton Co., American Natl. Bk. Bldg., Nashville 3, Tenn. (B-H)
 Gardner Constr. Co., P. O. Box 358, Nashville 1, Tenn. (B)
 Hailey, W. L., & Co., 314 42d Ave., No., Nashville 3, Tenn. (B-H-Hvy-RR)
 Holt, W. F., & Son, 1531 Demonbreun St., Nashville 4, Tenn. (B)
 Kelly, J. A., Co., 1419 Church St., Nashville 3, Tenn. (B)
 Nicholson, V. L., Co., 1322 Nashville Trust Bldg., Nashville 3, Tenn. (B-Hvy)
 Regen, J. B., 127 5th Ave., No., Nashville 3, Tenn. (B)
 Rock City Constr. Co., 135 4th Ave., No., Nashville 3, Tenn. (B)
 Rule, C. F., Constr. Co., 217 13th Ave., No., Nashville, Tenn. (B)
 Scroggin, J. C., Constr. Co., Woodcrest Ave., Nashville, Tenn. (B)
 Selley, D. R., 409 4th Ave., So., Nashville, Tenn. (B)
 Smith, W. R., & Son, P. O. Box 840, Nashville, Tenn. (B)
 Sumner Constr. Co., 912 8th Ave., So., Nashville 3, Tenn. (B)

(e) TRI-CITIES CHAPTER

President—W. R. Sproles, W. R. Sproles Constr. Co., Clay St., Kingsport, Tenn.
Secretary—H. C. Meeks, Armstrong Constr. Co., P. O. Box 8, Kingsport, Tenn.

Alley Constr. Co., Inc., Union Trust Bldg., Bristol, Tenn. (B-H)
 Armstrong Constr. Co., 151 Shelby St., Kingsport, Tenn. (B)
 Bays Mountain Constr. Co., Box 511, Kingsport, Tenn. (B-Hvy)
 Cassel Bros., 206 W. Sullivan St., Kingsport, Tenn. (B)
 Click Constr. Co., 118 Elk Ave., Elizabethton, Tenn. (B)
 Green, Jas. E., P. O. Box 427, Johnson City, Tenn. (B)
 Hart Constr. Co., 228 Commerce St., Kingsport, Tenn. (B)
 Johnson & Willard, 422 Front St., P. O. Box 174, Knoxville, Tenn. (B)
 Kingsolver, Arthur E., P. O. Box 894, Bristol, Va. (B)
 Myers, J. E., 218 E. Charlemont St., Kingsport, Tenn. (B)
 Rentenbach & Wright, Inc., P. O. Box 411, 217 E. Sullivan St., Kingsport, Tenn. (B)
 Sproles, W. R., Constr. Co., Clay St., Kingsport, Tenn. (B)
 Steadman Constr. Co., 147 Commerce St., Kingsport, Tenn. (B)
 Taylor Constr. Co., Inc., P. O. Box 237, Johnson City, Tenn. (H-Hvy)
 Weaver Constr. Co., 810 S. Roan St., P. O. Box 868, Johnson City, Tenn. (B)
 Young, B. G., & Sons, 200-300 Lamont St., Johnson City, Tenn. (H-Hvy-RR)

42. TEXAS

(a) DALLAS CHAPTER

President—H. H. Meers, Meers Constr. Co., 312 Great Natl. Life Bldg., Dallas 1, Texas
Managing Director—Julian Capers, Jr., 207 Thomas Bldg., Dallas 1, Texas
Telephones: C-8218 & P-71203

Beck, Henry C., Co., 607 1st Natl. Bk. Bldg., Dallas 1, Texas (B)
 Bennett, Henry C., Co., 1315 Cadiz St., Dallas, Texas (B)
 Bock Constr. Co., Inc., 2630 Ferris St., P. O. Box 9097, Dallas 15, Texas (B)
 Boyd, J. O., Constr. Co., 223 Pittman Ave., Box 1343, Dallas, Texas (B)
 Busboom & Rauh, 6910 Forest Park Rd., Dallas 9, Texas (B)
 Carpenter Bros., 1335 Plowman, Dallas 8, Texas (B)
 Cowdin Bros., 411 S. Haskell Ave., Dallas 1, Texas (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

TEXAS—Continued

Dolph Constr. Co., 3901 Elm St., Dallas 1, Texas (B)
 Dyer, Hal C., Lone Star Gas Bldg., Jackson St. Unit, Dallas 1, Texas (B)
 Eckert-Fair Constr. Co., 1307 Natl. City Bk. Bldg., Dallas 1, Texas (B)
 Fuess, C. A., & Co., 30½ Highland Park Shopping Village, Dallas 5, Texas (B)
 Henger Constr. Co., 1600 Dallas Natl. Bk. Bldg., Dallas 1, Texas (B)
 Hickey & Co., 204 Construction Bldg., Dallas 2, Texas (B)
 Inge-Hayman Constr. Co., Inc., 2326 N. Beckley Ave., Dallas, Texas (B)
 Inwood Constr. Co., 5151 Northwest Hwy., Dallas, Texas (B)
 Jones, J. Lawrence, 406 W. Clarendon Dr., Dallas 8, Texas (B)
 McKee, Robt. E., Box 2848, Dallas 1, Texas (B)
 Meers Constr. Co., 312 Great Natl. Life Bldg., Dallas 1, Texas (B)
 Miller & Norton, 4415½ Belmont, P. O. Box 4667, Dallas 6, Texas (B)
 Montgomery, P. O'B., P. O. Box 923, Dallas, Texas (B)
 Morgan, J. E., & Sons, P. O. Box 6029, Dallas, Texas (B)
 Munn, Arch, & Sons, 5319 Junius St., Dallas 14, Texas (B)
 O'Rourke Constr. Co., 1001 W. Commerce, P. O. Box 5384, Dallas 2, Texas (B)
 O'Rourke, J. L., & Son, 5506 Redfield, Dallas, Texas (B)
 Ransdell Constr. Co., 1014 National City Bk. Bldg., Dallas, Texas (B-Hvy)
 Rife, A. J., Constr. Co., 2608 Inwood Rd., Dallas, Texas (B)
 Stewart, James, & Co., Inc., 1417 Magnolia Bldg., Dallas 1, Texas (B)
 Sumner, Chas. V., 6700 Snider Plaza, Dallas 5, Texas (B)
 Vilbig Bros., Inc., P. O. Box 5930, Dallas 2, Texas (B)
 Vivrett & Vivrett, 1211 Southland Life Bldg., Dallas 1, Texas (B)
 Wallace, W. H., Constr. Co., 715 W. Davis St., Dallas 8, Texas (B)

(c) FORT WORTH CHAPTER

President—Thomas McCann, McCann Constr. Co., 1813 E. Lancaster, P. O. Box 2079, Fort Worth 1, Texas
Manager—R. B. Dunbar, 511 Neil P. Anderson Bldg., Fort Worth, Texas
Telephone: 3-7688

Adams, B. B., Inc., 716 1st Natl. Bk. Bldg., Fort Worth 2, Texas (B)
 Butcher & Sweeney, Inc., 806½ Taylor St., Fort Worth 2, Texas (B)
 Byrne, Thos. S., Inc., Fort Worth Natl. Bk. Bldg., Fort Worth 2, Texas (B)
 Cadenhead, Thos. H., & Sons, 715 Isbell Rd., Fort Worth, Texas (B)
 Cain & Cain, 406 Majestic Bldg., Fort Worth 2, Texas (B)

Cauker, Joe, 4700 Circle Ridge Dr., Fort Worth, Texas (B)
 Childs Constr. Co., 1708 Jones St., Fort Worth 3, Texas (B)
 Cloer, E. E., 2825 Crockett St., Fort Worth, Texas (B)
 Duncan, Horace O., 1008 E. Mulkey St., Fort Worth, Texas (B)
 Friedman Constr. Co., 1510 W. 10th St., Fort Worth 3, Texas (B)
 Harms, W. C., 1228 W. Shaw St., Fort Worth, Texas (B)
 Lewis & Lewis, 205 Page St., Fort Worth 4, Texas (B)
 Lytle, W. F., & Sons, 3712 Carolyn Rd., Fort Worth, Texas (B)
 McCann Constr. Co., 1813 E. Lancaster, P. O. Box 2079, Fort Worth 1, Texas (B)
 McIntire, F. B., Constr. Co., 5611 E. Lancaster, Fort Worth, Texas (B)
 McQuaid Constr. Co., 1811 Mistletoe Blvd., Fort Worth 4, Texas (B)
 Mitchell & Osborne, 201 T. & P. Passenger Sta. Bldg., Fort Worth, Texas (B)
 Murphy, J. R., 2414 Cypress, Fort Worth, Texas (B)
 Padgett, John W., 3936 Bryce Ave., Fort Worth, Texas (B)
 Paschall-Sanders Constr. Co., 3602 Linden, Fort Worth 7, Texas (B)
 Potter, John W., 718 American Fidelity Bldg., Fort Worth, Texas (B)
 Quisile, Oscar, 1st Natl. Bk. Bldg., Fort Worth 2, Texas (B)
 Roden Constr. Co., 3617 Collinwood, Fort Worth, Texas (B)
 Seward & Shurtleff, 806½ Taylor St., Fort Worth, Texas (B)
 Smith, Albert L., 2821 Bledsoe, Fort Worth 7, Texas (B)
 Taylor, Jas. T., & Son, Inc., 117 Roberts Cut-Off Rd., P. O. Box 225, Fort Worth, Texas (B)
 Tompkins, Chas. H., Co., 557 8th Ave., Fort Worth, Texas (B)

(d) HOUSTON CHAPTER

President—Howard T. Tellepsen, Tellepsen Constr. Co., 1710 Telephone Rd., P. O. Box 2536, Houston 3, Texas
Executive Secretary—Loy W. Duddleston, Gray & Crawford, Houston 3, Texas
Telephone: Charter 6051

Allen, O. L., Co., 1922 Wentworth Ave., Houston 4, Texas (B)
 American Constr. Co., The, 410 Rusk Bldg., Houston 2, Texas (B)
 Audish, I. G., 1911 Kolfahl St., Houston 3, Texas (B)
 Ball, R. F., Constr. Co., Inc., Box 13097, Houston 19, Texas (B)
 Bate, Thos., & Sons, 1107 Girard St., Houston 10, Texas (B)
 Baxter Constr. Co., 2718 Cason St., Houston 5, Texas (B)
 Bellows, W. S., Constr. Corp., P. O. Box 2132, 716 N. Everton St., Houston 1, Texas (B-Hvy)

Bertelsen Constr. Co., 2411 Bissonnet, Houston 5, Texas (B)
 Bond, E. Lee, Contr., Inc. 607 Oakley St., Houston 6, Texas (B)
 Brown Constr. Co., 5105 Ave. L, Houston 11, Texas (B)
 Bryan, Thos., & Assos., Inc., 620 M & M Bldg., Houston 2, Texas (B-Hvy)
 C & W Constr. Co., P. O. Box 5057, Houston 12, Texas (B)
 Campbell & Kay, P. O. Box 836, Tyler, Texas (B-H)
 Cantrell & McMillan, P. O. Box 7601, Houston 7, Texas (B)
 Carpenter Constr. Co., 5330 Mandell, Houston 5, Texas (Hvy-RR)
 Chambers Constr. Co., 1414 Austin St., Houston 3, Texas (B)
 Consolidated Steel Corp., Constr. Div., 949 M & M Bldg., Houston 2, Texas (B-Hvy)
 Construction & Maintenance Co. of Texas, 6505 Navigation Blvd., Houston 11, Texas (B)
 Copeland Constr. Co., 2265 Bellaire Blvd., Houston 5, Texas (B)
 Davis, Felix A., Constr. Co., 507 Harrington St., Houston 9, Texas (B)
 Dent, Jas. B., P. O. Box 6275, Houston 6, Texas (B)
 Dow Constr. Co., 3410 Julian St., Houston 9, Texas (B)
 Duncan, Lewis A., 1417 Chenevert St., Houston 3, Texas (B)
 Equipment Rental & Contr. Co., 6731 Harrisburg Blvd., Houston 11, Texas (B)
 Evans, A. N., Columbus, Texas (B)
 Faux, C. A., Constr. Co., 1927 W. Clay Ave., Houston 19, Texas (B)
 Ferguson, H. K., Co., The, 1054 M & M Bldg., Houston 2, Texas (B)
 Fisher Constr. Co., P. O. Box 6127, Houston 6, Texas (B)
 Flanders Constr. Co., P. O. Box 12271, Houston 17, Texas (B)
 Fretz Constr. Co., 2000 Eastwood St., Houston 3, Texas (B-Hvy)
 Fulton Constr. Co., 2600 W. Lamar Ave., Houston 6, Texas (Hvy-RR)
 Goggan, W. J., 1116 Banks St., Houston 6, Texas (B)
 Gunit Concrete & Constr. Co., 2036 Addison, Houston 5, Texas (Hvy)
 Hill, W. D., Constr. Co., Box 6023, Fairview Sta., Houston 6, Texas (B)
 Holtz, B. W., 1318 Sul Ross, Houston 6, Texas (B)
 Howard Constr. Co., Inc., 442 N. Hutcheson St., Houston 3, Texas (B)
 Howe, T. D., Constr. Co., Inc., 3210 White Oak Dr., P. O. Box 7526, Houston 7, Texas (B)
 Hubbard, T. B., Constr. Co., Inc., 1507 Delano St., Houston 3, Texas (B)
 Hubbell, J. T., Constr. Co., P. O. Box 14128, Houston 21, Texas (B)
 Jones, J. O., Constr. Co., P. O. Box 6051, Houston, Texas (B)
 Jordan, R. F., Constr. Co., P. O. Box 266, Angleton, Texas (B)
 Kettle Constr. Co., 307 Bremond St., Houston 6, Texas (B)

A.G.C. DIRECTORY

TEXAS—Continued

Kidde, Walter, Constrs., Inc., 4101 San Jacinto St., Houston 4, Texas (B)
 Knutson Constr. Co., 2233 Commerce Bldg., Houston 2, Texas (B)
 LeBlanc, Inc., P. O. Box 351, Houston 1, Texas (B)
 Linbeck Constr. Corp., P. O. Box 13007, Houston 19, Texas (B)
 Lockhart & Warren, Inc., 1508 Fannin St., Houston 2, Texas (B)
 Manhattan Construction Company of Texas, 2828 Pease Ave., Houston, Texas (B)
 Marshall Constr. Co., P. O. Box 7538, Houston 7, Texas (B)
 Marshall, Logan P., 4009 Center St., Houston 7, Texas (B)
 Mason Bros. Constr. Co., Inc., 9000 Hempstead Rd., P. O. Box 7617, Houston 7, Texas (B-Hvy)
 Maxey, Carl E., P. O. Box 108, Lubbock, Texas (B-Hvy)
 Meco Constr. Co., 846 Kress St., Houston 20, Texas (B-H-Hvy)
 Meyerson, Albert, Co., P. O. Box 14005, Foster Pl. Sta., Houston 21, Texas (B)
 Miller, W. R., 6716 Long Dr., Houston 19, Texas (B-RR)
 Moore & Moore, P. O. Box 306, LaPorte, Texas (B)
 Mora, Gerald, P. O. Box 2623, Houston 1, Texas (Hvy)
 Nesmith, Robt. E., Inc., 6738 Long Dr., Houston 17, Texas (B)
 Nunez Constr. Co., Inc., P. O. Box 1112, Texas City, Texas (Hvy)
 O'Rourke Constr. Co., 4011 Koehler St., P. O. Box 7557, Houston 7, Texas (B)
 Peck, W. D., & Co., Inc., 304 Citizens State Bk. Bldg., Houston 2, Texas (B)
 Plank, J. C., 4700 Nett St., Houston 7, Texas (B)
 Polmur Constr. Co., 3405 S. Shepherd Dr., Houston 6, Texas (B)
 Rainey, Walter M., Constr. Co., 1211 Rosine St., Houston 6, Texas (B)
 Roberts, Jas. A., 2014 Rosedale Ave., Houston 4, Texas (B)
 Sawyer-Wells Constr. Co., 1817 Preston Ave., Houston 2, Texas (B)
 Schneider Constr. Co., Inc., 3004 W. Dallas Ave., Houston 6, Texas (B)
 Semands, Martin B., P. O. Box 979, Conroe, Texas (B)
 Smith, Robt. H., & Co., Inc., 2301 Telephone Rd., Houston 3, Texas (B)
 Smith, Wm. A., Constr. Co., Inc., 317 Citizens State Bk. Bldg., P. O. Box 1631, Houston 1, Texas (RR)
 Southwestern Constr. Co., P. O. Box 1204, Houston 1, Texas (B-Hvy)
 Tellepsen Constr. Co., 1710 Telephone Rd., P. O. Box 2536, Houston 3, Texas (B-Hvy)
 Temple, Arthur, Jr. & Assos., 116 Cotton Sq., P. O. Box 1021, Lufkin, Texas (B)
 Templeton, C. E., 2309 McClendon St., Houston 5, Texas (B)
 Texala Constr. Co., 8120 Stedman, Houston 15, Texas (B)

Texas-Gulf Constr. Co., Inc., 2008 S. Wayside Dr., P. O. Box 661, Houston 1, Texas (B-Hvy)
 Van Buskirk, Harold, & Co., Inc., P. O. Box 14003, Houston 21, Texas (B)
 Van Cleve Constr. Co., 5614 Telephone Rd., Houston 17, Texas (B)
 Williams, Claude K., & Co., 1917 Westheimer, Houston 6, Texas (B)
 Williams Constr. Co., P. O. Box 9162, Houston 11, Texas (B)
 Williams, Edw., 2318 Sul Ross Ave., Houston 6, Texas (B)
 Windham & Sons, Inc., P. O. Box 789, Livingston, Texas (B)
 Wohlfeld, Nathan, 6702 Cedar Springs Ave., P. O. Box 7084, Love Field Br., Dallas 9, Texas (B)
 Woodruff, W. E., Co., 3201 Liberty Rd., Houston 10, Texas (B)
 Zachry, H. B., Co., P. O. Box 2570, San Antonio 6, Texas (B-H-Hvy-RR)
 Zempter, J. W., Contr. Co., Inc., P. O. Box 57, 6502 Broadway, Galveston, Texas (B)

(e) SAN ANTONIO CHAPTER

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 Baugh & Scott, 605 Culebra Ave., San Antonio, Texas (B)
 Browning, C. L., Jr., P. O. Box 5135, Beacon Hill Sta., San Antonio, Texas (B)
 Chamberlain & Strain, 607 National Bk. of Commerce Bldg., San Antonio 5, Texas (B)
 Christy & Baskett, American Hospital & Life Bldg., San Antonio 5, Texas (B)
 Forgy Constr. Co., P. O. Box 6521, Alamo Hts. Br., San Antonio, Texas (B)
 Hill & Combs, 321 Melrose Pl., San Antonio 1, Texas (B-Hvy)
 Lynn & Morsey, 407 Ira Ave., P. O. Box 2546, San Antonio 6, Texas (B)
 Martin, J. B., P. O. Box 37, Grayson St. Sta., San Antonio 8, Texas (B)
 McKenzie Constr. Co., 435 E. Mitchell, San Antonio 4, Texas (B-H-Hvy)
 Mitchell, G. W., 612 American Hospital & Life Bldg., San Antonio 5, Texas (B)
 Phelps, Judson H., 317 Insurance Bldg., San Antonio, Texas (B)
 Prassel, Victor, P. O. Box 526, San Antonio 6, Texas (B-Hvy)
 Rheiner, A. E., & Co., 2304 Transit Tower, San Antonio, Texas (B)
 Rheiner, D. J., Constr. Co., 409 Insurance Bldg., San Antonio, Texas (B)
 Scott, F. L., & Son, 2402 W. Kings Hwy., San Antonio 1, Texas (B)
 von Rosenberg, H. J., 330 Melrose Pl., San Antonio 5, Texas (B)
 Walsh & Burney Co., 928 N. Flores St., San Antonio 1, Texas (B-H-Hvy)
 Worcester, John C., 301 Menchaca St., P. O. Box 2058, San Antonio, Texas (B)

(f) TEXAS HIGHWAY BRANCH

President—F. W. Heldenfels, Jr., Heldenfels Bros., P. O. Box 1917, Corpus Christi, Texas
Vice President—W. H. Courson, Texas Bitulithic Co., P. O. Box 5297, Dallas 2, Texas
Secretary-Manager—Chas. H. Newell, Austin Hotel, Austin 4, Texas
Telephone: 6-9662
 Adams Constr. Co., P. O. Box 376, Kaufman, Texas (H)
 Adams, Geo. B., 808 Ennis Ave., Bryan, Texas (H)
 Allhands & Briley, Southwestern Life Bldg., Dallas 1, Texas (H)
 Allhands & Swatzell, Inc., 1005 Southwestern Life Bldg., Dallas 1, Texas (H)
 Anglin, Ross, P. O. Box 4038, Austin, Texas (H)
 Armstrong & Armstrong, Box 873, Roswell, N. Mex. (H)
 Austin Bridge Co., P. O. Box 1590, Dallas, Texas (H)
 Austin Road Co., The, Box 1590, Dallas 8, Texas (H)
 Bell, Braden, Barker & Gilvin, Herring Hotel, Amarillo, Texas (H)
 Briggs, R. W., & Co., P. O. Box 1981, San Antonio, Texas (B-H-Hvy)
 Brown, Marvin, Inc., 4300 Dixie Dr., P. O. Box 6117, Houston, Texas (H)
 Brown & Root, Inc., P. O. Box 1139, Austin, & P. O. Box 3, Houston 1, Texas (H-Hvy)
 Buckner, John F., & Sons, P. O. Box 76, Cleburne, Texas (H)
 Buckner, R. C., P. O. Box 609, Jacksonville, Texas (H)
 Bucy, A. L., 804 Ave. I, Brownwood, Texas (H)
 Butler, H. L., & Son, P. O. Box 7112, Dallas 9, Texas (H)
 Butler, R. B., Inc., Box 471, Bryan, Texas (H)
 Cage Bros., 607 Travis Bldg., San Antonio, Texas (H)
 Cagle, Harry E., P. O. Box 6117, Houston 6, Texas (H-Hvy)
 Campbell, Harry, 2854 Berry St., Fort Worth 4, Texas (H)
 Campbell & Kay, P. O. Box 836, Tyler, Texas (B-H-Hvy-RR)
 Canion, J. R., Constr. Co., 608 W. Monroe, P. O. Box 756, Austin, Texas (H-Hvy)
 Clardy, J. B., Constr. Co., 2713 Race St., Box 7024, Sylvania Sta., Fort Worth, Texas (H)
 Clinton & Corbin, 2824 Colonial Ave., Waco, Texas (H)
 Cloud, Dudley R., & Son, 1903 Transit Tower, San Antonio 5, Texas (H-Hvy)
 Cohen, Chas., 206 Dunn Bldg., Marshall, Texas (H-Hvy)
 Colglazier & Hoff, Inc., 526 Seguin Rd., San Antonio 8, Texas (H)
 Collins Constr. Co., P. O. Box 1192, Austin 6, Texas (H-Hvy)
 Cooper & Woodruff, Dallas Natl. Bk. Bldg., Dallas, Texas (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

TEXAS—Continued

Crawford, W. S., Co., 5350 Montrose Dr., Dallas 9, Texas (H)
 D & H Constr. Co., Box 7053, Dallas 9, Texas (H)
 Dailey & Holifield, Transit Tower, San Antonio, Texas (H)
 Darby, E. B., Co., Box 467, Pharr, Texas (H)
 Davis-Pace-Shelburne, 311 Great Natl. Life Bldg., Dallas, Texas (H-Hvy)
 Dellinger, J. M., Inc., 2425 Leopard St., P. O. Box 4227, Corpus Christi, Texas (H)
 Dement, Ivan, Box 1787, Amarillo, Texas (H)
 Dew Constr. Co., Inc., Box 641, Tyler, Texas (H)
 Dodds & Wedegartner, Inc., Box 1950, San Benito, Texas (H)
 Farnsworth & Chambers Co., Inc., P. O. Box 74, Houston 1, Texas (B-Hvy)
 Farquhar, Neely B., P. O. Box 256, Ennis, Texas (H)
 Farr, R. T., Rogers, Texas (H)
 Freeland, Jack, & Co., Box 97, Bandera, Texas (H)
 Gaylord Constr. Co., P. O. Box 6157, Houston 6, Texas (H-Hvy)
 General Constr. Co., P. O. Box 1524, Fort Worth 1, Texas (H)
 Gifford-Hill & Co., Inc., 412 Texas Bk. Bldg., Dallas 2, Texas (H-RR)
 Gulf Bitulithic Co., P. O. Box 2096, Houston 1, Texas (H-Hvy)
 Habbe, E. W., & Sons, P. O. Box 628, Corsicana, Texas (H)
 Hall, Wesley, Rt. 1, Box 260, Brownwood, Texas (H)
 Hanson, Olene, 4906 Griggs Rd., Houston 4, Texas (H)
 Harrison Engr. & Constr. Corp., 4638 Mill Creek Pkwy., Kansas City 2, Mo. (H-Hvy)
 Heidelberg, C. R., 320 Jackson St., Jacksonville, Texas (H)
 Heldenfels Bros., P. O. Box 1917, Corpus Christi, Texas (H)
 Henderson, H. R., Co., Drawer 313, Marshall, Texas (H)
 Henning-Payne Constr. Co., 897 Ross Ave., Abilene, Texas (H)
 Hill, E. B., 1600 S. Branch St., P. O. Box 606, Sherman, Texas (H-Hvy-RR)
 Hoffman, Ned B., Fort Worth Club Bldg., Fort Worth 2, Texas (H)
 Howard Bros., Madisonville, Texas (H)
 Jarbet Co., The, Rt. 11, Box 172, San Antonio, Texas (H)
 Kelly Constr. Co., 2215 Belknap, San Antonio 1, Texas (H-Hvy)
 Kies, Geo., 1506 W. Lynn, Austin, 21, Texas (H)
 Killian, M. B., & Co., P. O. Box 1981, San Antonio, Texas (H)
 Kitchens, Rex D., Constr. Co., 608 W. Monroe, P. O. Box 3006, Austin 2, Texas (B-H)
 Lacy, L. H., Co., 5630 Yale Blvd., P. O. Box 5726, Dallas 5, Texas (B-H)
 Larson, Norman L., 2410 Jarratt, Austin, Texas (H)
 Leslie, John T., Chapman Bldg., Waxahachie, Texas (H)

Loyd, Ernest, P. O. Box 1120, Fort Worth 1, Texas (H)
 M-J Constr. Co., Inc., 301 S. Washington St., P. O. Box 1111, Beeville, Texas (H)
 McCall Engr. Co., P. O. Box 2213, Houston, Texas (B-Hvy)
 McKenzie Constr. Co., 435 E. Mitchell, San Antonio 4, Texas (B-H-RR)
 McKinney, R. W., Nacogdoches, Texas (H)
 McKown & Sons, Box 785, Austin, Texas (H)
 McMillan, Hugh, P. O. Box 1227, El Paso, Texas (H)
 McMillin-Burkett Constr. Co., P. O. Box 450, Texarkana, Texas (H)
 McMullin-Larson & Co., 1961 N. Industrial Blvd., Dallas, Texas (H)
 Miles, L. J., Constr. Co., 1901 Fort Worth Natl. Bk. Bldg., Fort Worth 2, Texas (H)
 Mitchell, Russ, Inc., 5304 Old Spanish Trail, Box 8056, Houston 3, Texas (H)
 Moore, Bart, Co., P. O. Box 6557, Alamo Hts. Br., San Antonio 9, Texas (H)
 Moore Bros. Constr. Co., P. O. Box 35, Lufkin, Texas (H-Hvy)
 Newton, Harry, Inc., Graham Land Office Bldg., Graham, Texas (H)
 Oldt, F. S., Co., 403 S. Haskell, Dallas 1, Texas (H-Hvy)
 Page, Holland, Box 1181, Austin, Texas (H)
 Panhandle Constr. Co., P. O. Box 1500, Lubbock, Texas (H-Hvy)
 Pelphrey, W. O., 1714 Electric Bldg., Fort Worth 2, Texas (H)
 Perry, J. W., 501 Insurance Bldg., San Antonio 5, Texas (H)
 Public Constr. Co., Box 380, Denton, Texas (H)
 Reeves, F. M., & Sons, P. O. Box 972, Austin 5, Texas (H)
 Ruby, M. E., San Marcos, Texas (H)
 Schwoppe Bros., 6633 W. Commerce St., San Antonio, Texas (H-Hvy)
 Sira, Ben, & Co., 6419 Maple Ave., Dallas, Texas (H)
 Skinner, Dean, Box 4057, No., Austin, Texas (H)
 Smith, R. B., 3702 Glenn Haven, Houston, Texas (H)
 South Texas Constr. Co., Box 1673, San Benito, Texas (H)
 Southern Contr. Co., Box 460, Austin, Texas (H)
 Spencer Constr. Co., P. O. Box 487, Carrollton, Texas (H-Hvy-RR)
 Standard Paving Co., Majestic Bldg., Fort Worth 2, Texas (H)
 Strain & Brown, Inc., Box 1057, San Angelo, Texas (H)
 Strain, C. Hunter, P. O. Box 1057, San Angelo, Texas (H)
 Terry, Chas. C., Box 873, Deming, N. Mex. (H)
 Texas Bitulithic Co., P. O. Box 5297, Dallas 2, Texas (H)
 Thomas & Ratliff, Rogers, Texas (H)
 Trotti & Thomson, 2940 Crockett St., P. O. Box 70, Beaumont, Texas (H)
 Turner, Luther A., & Son, Box 1125, Austin, Texas (H)
 Uvalde Constr. Co., P. O. Box 3027, Dallas, Texas (H-Hvy)

Vowell Constr. Co., P. O. Box 253, El Paso, Texas (H)
 Wallace & Bowden, 5513½ E. Grand Ave., Dallas 10, Texas (H)
 Wendel Constr. Co., P. O. Box 231, El Campo, Texas (H)
 Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa (H)
 Word, Dean, & Co., Box 330, New Braunfels, Texas (H)
 Worrell, M. E., Box 278, Junction, Texas (H)
 Worth Constr. Co., P. O. Box 531, Fort Worth, Texas (H)
 Zachry, H. B., Co., P. O. Box 2570, San Antonio, & P. O. Box 850, Laredo, Texas (B-H-Hvy-RR)

(g) ASSOCIATED GENERAL CONTRACTORS OF AMARILLO

President—Russell A. Ramey, Ramey-Mathis Constr. Co., P. O. Box 6, Amarillo, Texas
Secretary-Treasurer—Maenard Hamilton, C. S. Lambie & Co., 431 Amarillo Bldg., Amarillo, Texas

Goforth, Earl, 1026 Sunset St., Amarillo, Texas (B)
 Jesse, Frank, 2416 Hughes St., Amarillo, Texas (B)
 Lambie, C. S., & Co., 431 Amarillo Bldg., P. O. Box 1167, Amarillo, Texas (B)
 Little-Hill Constr. Co., 1013 W. 14th, P. O. Box 207, Amarillo, Texas (B)
 Mathis, Claude E., 301 N. Tyler St., P. O. Box 1727, Amarillo, Texas (B)
 Ramey-Mathis Constr. Co., Paramount Bldg., P. O. Box 6, Amarillo, Texas (B)
 Randall Bldg. Co., 528 Amarillo Bldg., Amarillo, Texas (B)
 Singleton, Neill, 514 N. Fillmore St., P. O. Box 2130, Amarillo, Texas (B)
 Timmons Constr. Co., 1707½ W. 7th Ave., P. O. Box 3128, Amarillo, Texas (B)
 Wirtz, Walter E., 504 Jefferson St., P. O. Box 2442, Amarillo, Texas (B)

(h) ASSOCIATED GENERAL CONTRACTORS OF JEFFERSON COUNTY

President—G. Sargl, Box 1007, Beaumont, Texas
Secretary—A. E. Wenham, 2276 Park St., Beaumont, Texas
Telephone: 2-8311

Andrus, M. R., 1433 Emile, Beaumont, Texas (B)
 Beaumont Constr. Co., P. O. Box 2814, Beaumont, Texas (H-Hvy)
 Cantrell & McMillan, P. O. Box 7601, Houston 7, Texas (B)
 Collins, O. W., 2048 Procter St., Port Arthur, Texas (B-Hvy)
 Farnsworth, R. P., & Co., P. O. Box 1029, Beaumont, Texas (B)
 Foster Bros., 1948 Stadium Rd., Port Arthur, Texas (B)
 Giblin, L. J., P. O. Box 143, Groves, Texas (B)

A.G.C. DIRECTORY

TEXAS—Continued

Hay, A. L., & Son, P. O. Box 301, Port Arthur, Texas (B)
 Ratcliff Bros. Constr. Co., 312 Main St., Liberty, Texas (B)
 Reynolds, H. H., P. O. Box 55, Beaumont, Texas (B)
 Sargl, G., Box 1007, Beaumont, Texas (B)
 Tellepsen Constr. Co., 1710 Telephone Rd., Houston 3, Texas (B-Hvy)
 Weber, Herman, 800 N. Pearl St., Beaumont, Texas (B)
 Winter-King & Son, 2293 Park St., Beaumont, Texas (B)

(i) SOUTH TEXAS CHAPTER

President—John W. Phillips, 1718 3d St., P. O. Box 3253, Corpus Christi, Texas
Managing Director—Curtis Bell, 902 Kinney St., Corpus Christi, Texas
Telephone: 23393

Adams, John, 1512 Mesquite St., Corpus Christi, Texas (B)
 Aikin, Lee, P. O. Box 2350, Corpus Christi, Texas (B-Hvy)
 Arthur Bros., 913 S. 6th St., P. O. Box 1089, Kingsville, Texas (B)
 Ball, R. F., Constr. Co., Box 13097, Houston 19, Texas (B-Hvy)
 Beck, O. J., & Sons, 340 Westchester Dr., Corpus Christi, Texas (B)
 Bermingham, J. W., Constr. Co., Inc., 1809½ Morgan St., Corpus Christi, Texas (B)
 Bigler & Bigler, 529 Ralston St., Corpus Christi, Texas (B)
 Braselton Constr. Co., Box 4027, Corpus Christi, Texas (B)
 Burnett Constr. Co., Box 336, Corpus Christi, Texas (B)
 Davis Constr. Co., 1804 Morgan Ave., Corpus Christi, Texas (B)
 Edgeworth Constr. Co., 433 Villa Dr., Corpus Christi, Texas (B-H)
 Eisenhauer, E., 1124 N. Tanchahua St., Corpus Christi, Texas (B)
 Harrison, E. E., P. O. Box 477, Corpus Christi, Texas (B)
 Hinchberger Constr. Co., P. O. Box 134, Corpus Christi, Texas (B)
 Hinman, A. E., 804 Wilson Bldg., Box 1672, Corpus Christi, Texas (B-Hvy)
 Lawless & Alford, Box 1248, Corpus Christi, Texas (B)
 Leslie, C. E., 13th & Caesar, P. O. Box 1269, Kingsville, Texas (B-Hvy)
 Martin, J. B., P. O. Box 37, Grayson St. Sta., San Antonio 8, Texas (B)
 Middleton-Goldston, 918 E. Port, P. O. Box 672, Corpus Christi, Texas (Hvy)
 Phillips, John W., 1718 3d St., P. O. Box 3253, Corpus Christi, Texas (B)
 Porter, E. D., P. O. Box 661, Midland, Texas (B)
 Sanneman Bros. Constr. Co., 934 Kansas Ave., Topeka, Kans. (B)
 Slovak Eros., Whalen Dr., Box 5096, Corpus Christi, Texas (B-H)
 Walsh, J. A., 313 Bartlett Dr., Corpus Christi, Texas (B)

Watson, M. W., c/o E. B. Jackson, Repr., P. O. Box 1263, Corpus Christi, Texas (B-H-Hvy-RR)
 Weaver Constr. Co., 628 Atlantic, Corpus Christi, Texas (B)
 Wolter, W. H., 109 N. Carrizo St., Corpus Christi, Texas (B)
 Woodruff, H. E., Box 1146, Corpus Christi, Texas (B)
 Zachry, H. B., Co., P. O. Box 2570, San Antonio, Texas (B-H-Hvy-RR)

(j) MUNICIPAL CONTRACTORS ASSOCIATION (TEXAS)

President—F. S. Oldt, F. S. Oldt Co., 403 S. Haskell Ave., Dallas 1, Texas
Managing Director—R. M. Dixon, 212 Thomas Bldg., Dallas 2, Texas
Telephone: P7-1206

Allison, H. F., Co., 7110 Junius, Dallas 14, Texas (Hvy)
 Asplund Constr. Co., Box 1665, Enid, Okla. (Hvy)
 B & M Constr. Co., 316-319 Petroleum Bldg., Oklahoma City, Okla. (Hvy)
 Baker, Earl W., Co., Box 200 War Acres, Oklahoma City, Okla. (Hvy)
 Bartholomew, J. G., 311 Construction Bldg., Dallas, Texas (Hvy)
 Bate, Thos., & Sons, 1107 Girard St., Houston 10, Texas (B-Hvy)
 Bland, Joe, Constr. Co., 4704 E. 1st St., P. O. Box 1158, Austin, Texas (Hvy)
 Broughton, O. J., 2928 Amherst, Dallas, Texas (Hvy)
 Brown & Root, Inc., P. O. Box 3, Houston 1, Texas (Hvy)
 Carey, Clay P., & Co., Box 832, Brownwood, Texas (Hvy)
 Cullum & Hodgson, 1005½ 13th St., Rm. 260, Lubbock, Texas (B)
 Cullum, W. G., & Co., 502 Great Natl. Life Bldg., Dallas, Texas (Hvy)
 Dalton, E. L., & Co., Ltd., 3003 Hawes St., P. O. Box 7125, Dallas, Texas (Hvy)
 Darby, Mitchell, Constr. Co., 32-A M. & J. Nelson Bldg., McAllen, Texas (Hvy)
 Diamond Engr. Co., 8100 2d Ave., Dallas, Texas (Hvy)
 Dickerson, G. W., 1543 W. Kingshighway, San Antonio, Texas (Hvy)
 Everett, Claude, Inc., P. O. Box 500, Houston, Texas (Hvy)
 Farrow, E. E., Co., Box 7145, Dallas 9, Texas (Hvy)
 Ferguson Constr. Co., 6543 Forest Park Rd., P. O. Box 7271, Dallas, Texas (Hvy)
 Gardner, Elmer C., Inc., P. O. Box 6181, Houston, Texas (Hvy)
 George Constr. Co., P. O. Box 2573, Houston, Texas (Hvy)
 George, J. D., Co., 3331 Parkwood Dr., Houston, Texas (Hvy)
 Glade Constr. Co., 403 Century Bldg., Fort Worth, Texas (Hvy)
 Happel, H. J., Constr. Co., 5501 E. Admiral Blvd., Tulsa, Okla. (Hvy)
 Harrison, C. H., P. O. Box 185, Waco, Texas (Hvy)
 Heffernan, J., Jr., 2312 Southmore, Houston, Texas (Hvy)

Heldenfels Bros., P. O. Box 1917, Corpus Christi, Texas (Hvy)
 Holland, John G., Constr. Co., 1602 Old Spanish Trail, Houston, Texas (Hvy)
 Holland, W. P., 4388 Rosewood, Houston, Texas (Hvy)
 Koehler, A. S., P. O. Box 6235, Houston, Texas (Hvy)
 Koller Constr. Co., 612 Tradesmen's Natl. Bk. Bldg., Oklahoma City, Okla. (Hvy)
 Lancaster & Love, Inc., 905½ W. Jefferson, Dallas, Texas (Hvy)
 Layne-Texas Co., Ltd., The, 6419 Maple, Dallas, & P. O. Box 9098, Houston 11, Texas (Hvy)
 Lee, T. H., 401 N. Tanchahua, Rm. 128, Corpus Christi, Texas (Hvy)
 Martyn Bros., Inc., 1000 St. Louis St., Dallas 1, Texas (Hvy)
 McDonald, Henry C., Co., P. O. Box 1032, Kilgore, Texas (Hvy)
 McIllyar, W. K., Constr. Co., 8505 Douglas, Dallas, Texas (Hvy)
 McKenzie Constr. Co., 435 E. Mitchell, San Antonio 4, Texas (Hvy)
 Midwest Contr. Co., 403 S. Haskell Ave., Dallas, Texas (Hvy)
 Mitchell, Roy M., 208 Bossier Bk. Bldg., Shreveport, La. (Hvy)
 Mitchell, Russ, Inc., 5304 Old Spanish Trail, Box 8056, Houston 3, Texas (Hvy)
 Mora, Gerald, P. O. Box 2623, Houston, Texas (Hvy)
 Oldt, F. S., Co., 403 S. Haskell, Dallas, Texas (Hvy)
 Panhandle Constr. Co., P. O. Box 1500, Lubbock, Texas (Hvy)
 Rea, Wayne L., P. O. Box 1192, Corpus Christi, Texas (Hvy)
 Red River Constr. Co., 2212 Hollywood Ave., Shreveport, La. (B)
 Sherman Machine & Iron Works, 26 E. Main St., Oklahoma City, Okla. (Hvy)
 Sira, Ben, & Co., 6419 Maple Ave., Dallas, Texas (Hvy)
 Smith, Roger, P. O. Box 182, Waco, Texas (Hvy)
 Sorenson, P. C., & Co., Inc., 2205 S. Industrial Blvd., Dallas, Texas (Hvy)
 Stimson Corp., P. O. Box 5302, Dallas, Texas (Hvy)
 Swatek Constr. Co., Hightower Bldg., Oklahoma City, Okla. (Hvy)
 Swilling & Boyd, 708 Medical Arts Bldg., Waco, Texas (Hvy)
 Trueheart & Caldwell, 812 Insurance Bldg., San Antonio, Texas (Hvy)
 Wagner, Karl B., Box 4116, Austin, Texas (Hvy)
 Walsh Constr. Co., Electra, Texas (Hvy)
 Whittle, R. D., Constr. Co., P. O. Box 5602, Dallas, Texas (Hvy)
 Wilks, Dake & Steed, P. O. Box 573, Tyler, Texas (Hvy)
 Williams, Cole, Inc., Manderville Lane & Kirkland Pk. Rd., Rt. 7, Box 429 A, Dallas 6, Texas (Hvy)
 Williams, J. L., Constr. Co., Inc., 2502 Robinhood, Houston, Texas (Hvy)
 Wilson & Seward, Rt. 1, Box 11, Plano, Texas (Hvy)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

TEXAS—Continued

(k) AUSTIN CHAPTER

President—Leslie F. Crockett, Leslie F. Crockett Constr. Co., 112 Academy Dr., Austin, Texas
Executive Secretary—Miss Fannie Davis, P. O. Box 464, 609 Fredericksburg Rd., Austin, Texas
Telephone: 7-9459

Anderson, W. D., Co., 3100 Beverly Rd., Austin 21, Texas (B)
 Barker, J. B., Co., P. O. Box 179, 308 S. Angelina St., Lufkin, Texas (B-Hvy)
 Bland, Joe, Constr. Co., P. O. Box 1158, 4704 E. 1st St., Austin, Texas (B)
 Broad, John, Constr. Co., P. O. Box 494, 1711 W. 5th, Austin, Texas (B)
 Chandler Constr. Co., Box 84, 603 E. 29th St., Cameron, Texas (B)
 Crockett, Leslie F., Constr. Co., 112 Academy Dr., Austin, Texas (B)
 Eitze-Kitchens Constr. Co., P. O. Box 3034, 1512½ S. Congress, Austin, Texas (B)
 Fulcher-Burgher Constr. Co., 1010 W. 3d St., Austin, Texas (B)
 Kitchens, Rex D., Constr. Co., P. O. Box 3006, 608 W. Monroe, Austin 2, Texas (B-H)
 Lawless & Alford, P. O. Box 600, 5117 E. 1st St., Austin, Texas (B)
 Moore Constr. Co., P. O. Box 300, 125 Riverside Dr., Austin, Texas (B)
 Morris, Robt., Constr. Co., P. O. Box 1121, Green Acres Addition, Austin, Texas (B)
 Odom, J. M., P. O. Box 774, 914 Congress Ave., Austin, Texas (B-H)
 Reich, Hugh D., P. O. Box 373, 2301 Canterbury, Austin, Texas (B)
 Ricks, J. E., Constr. Co., P. O. Box 4141, 6215 Georgetown Rd., Austin, Texas (B)
 Roberts, J. B., 1723 Albans Rd., Houston, Texas (B)
 Rundell, Frank R., P. O. Box 455, 309 Lamar Blvd., Austin, Texas (B)
 Snead, E. B., Constr. Co., P. O. Box 777, Littlefield Bldg., Austin, Texas (B)
 Webb, T. A., 2205 Swisher, Austin, Texas (B)
 Weise Bros., 2600 Red River St., Austin 22, Texas (B)
 Woehl, A. J., P. O. Box 4, Bastrop, Texas (B)
 Wohlfeld, Nathan, P. O. Box 7084, Love Field Br., 6702 Cedar Springs Ave., Dallas, 9, Texas (B)

(l) WACO CHAPTER

President—D. R. Hendrick, Hendrick & Adams, P. O. Box 956, Waco, Texas
Manager—Brooks W. Pearson, 1802 Franklin Ave., P. O. Box 1968, Waco, Texas
Telephone: 4-4931

Chapman, Oscar T., Inc., P. O. Box 37, Hutchins, Texas (B)
 Hendrick & Adams, 1503 Franklin Ave., P. O. Box 956, Waco, Texas (B)
 Hendrick, C. L., & Son, 2111 N. 21st St., Waco, Texas (B)
 Hicks Constr. Co., 2911 N. 18th St., P. O. Box 2143, Waco, Texas (B)
 Hooker Constr. Co., 1315 N. 4th St., P. O. Box 2025, Waco, Texas (B)

Johnson, Ed, Marlin Hwy., P. O. Box 424, Waco, Texas (B)
 Jones & Williams Constr. Co., 2200 Baylor Ave., P. O. Box 2097, Waco, Texas (B)
 McClellan-Brown-McClellan, 2215 Franklin Ave., Waco, Texas (B)
 Phillips, W. R., P. O. Box 1261, Waco, Texas (B)
 Ramsey, C. C., 3704 Chateau Ave., Waco, Texas (B)
 Smith Bldg. Co., Inc., 2512 Franklin Ave., P. O. Box 796, Waco, Texas (B)
 Sparks, W. P., Jr., 3318 Mitchell Rd., Waco, Texas (B)

(m) PIPE LINE CONTRACTORS' ASSOCIATION (TEXAS)

President—Ray L. Smith, Ray L. Smith & Son, Inc., Box 391, El Dorado, Kans.
Executive Secretary—Richard A. Gump, 1014 Mercantile Bk. Bldg., Dallas, Texas
Telephone: Prospect 7-8424

Anderson Bros. Corp., 707 N. Drennan St., P. O. Box 2591, Houston, Texas (Hvy)
 Associated Pipe Line Contrs., Inc., 11-12 Lamar-River Oaks Shopping Center, 3272 Westheimer, Houston 1, Texas (Hvy)
 Bechtel Corp., 220 Bush St., San Francisco 4, Calif. (Hvy)
 Bishop & Lock Constr. Co., 503 Magnolia Bldg., Dallas 1, Texas (Hvy)
 Britton Contr. Co., Inc., P. O. Box 56, Hamilton, Ohio (Hvy)
 Brodie Constr. Co., P. O. Box 2064, Amarillo, Texas (Hvy)
 Conyes Constr. Corp., 2884 San Pablo Ave., San Pablo, Calif. (Hvy)
 Eastern Constr. Co., Inc., 1801 Mercantile Bk. Bldg., Dallas 1, Texas (Hvy)
 Farley, L. E., Inc., 516 Chronicle Bldg., Houston 2, Texas (Hvy)
 Foreman, C. S., Co., 1221 Baltimore Ave., Kansas City 6, Mo. (Hvy)
 Fulton, R. H., & Co., P. O. Box 1526, Lubbock, Texas (Hvy)
 Griffith, G. G., Inc., 2514½ E. 15th St., Tulsa, Okla. (Hvy)
 Knapp Constr. Co., Inc., P. O. Box 152, Great Bend, Kans. (Hvy)
 Latex Constr. Co., 2707 Ferndale Pl., Houston 6, Texas (Hvy)
 Mahoney, E. J., Contr. Co., 215 Hersee Bldg., Mt. Pleasant, Mich. (Hvy)
 McVean & Roberts Pipe Line Constr. Co., 1803 N. Grant, Box 2607, Odessa, Texas (Hvy)
 Midwestern Constrs., Inc., 105 N. Boulder, Tulsa 3, Okla. (Hvy)
 Morrison Constr. Co., Inc., P. O. Box 798, Austin, Texas (Hvy)
 Oklahoma Contr. Corp., 1210 Mercantile Bldg., Dallas 1, Texas (Hvy)
 Pacific Pipeline & Engrs., Ltd., 225 Bush St., San Francisco 4, Calif. (Hvy)
 Pipe Line Constr. & Drilling Co., P. O. Box 165, Camp Hill, Pa. (Hvy)
 Potashnick, R. B., P. O. Box 205, Cape Girardeau, Mo. (Hvy)
 Price, H. C., Co., Union Natl. Bk. Bldg., Bartlesville, Okla. (Hvy)

Rumsey Bros. Pipe Line Constr. Co., 3215 N. Broadway, Wichita, Kans. (Hvy)
 Saigh, N. A., Co., Inc., 531 Majestic, San Antonio 5, Texas (Hvy)
 Sheehan Pipe Line Constr. Co., 529 National Bk. of Tulsa Bldg., Tulsa 3, Okla. (Hvy)
 Smith Contr. Corp., 205 N. W. 7th St., Fort Worth, Texas (Hvy)
 Smith, Ray L., & Son, Inc., Box 391, El Dorado, Kans. (Hvy)
 Somerville Constr. Co., Ada, Mich. (Hvy)
 Texas-Southern Constr. Co., 804 Dan Waggoner Bldg., Fort Worth 2, Texas (Hvy)
 Vaughn & Taylor Constr. Co., Inc., 828 Hamilton Bldg., Box 1351, Wichita Falls, Texas (Hvy)
 Williams-Austin Co., 707 Grant Bldg., Pittsburgh 19, Pa. (Hvy)
 Williams Bros. Corp., 324 National Bk. of Tulsa Bldg., Tulsa 3, Okla. (Hvy)

(n) EAST TEXAS CHAPTER

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Executive Secretary—Mrs. Sunnye Hisey, 426 E. Cotton, Longview, Texas
Telephone: 4949

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 Bergstrom, H. R., & Robt. B. Yates, P. O. Box 633, Marshall, Texas (B)
 Brown, M. Clint, Co., P. O. Box 808, Longview, Texas (B)
 Byers, J. B., 2208 Florence St., Box 1215, Kilgore, Texas (B)
 Choate, Milo J., & Co., 1412 W. 5th St., Tyler, Texas (B)
 Gray Constr. Co., P. O. Box 275, Carthage, Texas (B)
 Kerr Engr. & Constr. Co., Laird Hill Rd., Box 1342, Kilgore, Texas (B)
 Owens, J. Sam, Constr. Co., P. O. Box 1151, Longview, Texas (B)
 Price Constr. Co., P. O. Box 593, Marshall, Texas (B)
 Sharrock, J. A., & Sons, P. O. Box 268, Marshall, Texas (B)
 Thompson & Morton Co., P. O. Box 867, Kilgore, Texas (B)
 Walton, W. W., Co., 1904 Belvedere St., P. O. Box 516, Tyler, Texas (B)
 White, H. E., 1005 S. Broadway, Tyler, Texas (B)
 Wilmoth, Tom, 108 Highland Ave., Longview, Texas (B)

(o) RIO GRANDE VALLEY CHAPTER

President—E. E. Marchant, Marchant Bros., Rm. 309, Hidalgo County Bk. Bldg., P. O. Box 545, Mercedes, Texas
Managing Director—Randolph Fleuriot, Box 496, Harlingen, Texas
Telephone: 1807

Allan Constr. Co., P. O. Box 543, Mercedes, Texas (B)
 Buice, A. A., Box 422, Elsa, Texas (B)
 Choate, Jack, 318 N. 4th St., P. O. Box 1465, Harlingen, Texas (B)

A.G.C. DIRECTORY

TEXAS—Continued

Greenwald, Roy, Rt. 1, Box 175-A, La Feria, Texas (B)
 Hendricks, Harold, Contr. Co., One Mile S. 10th St., McAllen, Texas (B)
 Hughes, J. B., Box 902, Brownsville, Texas (B)
 Marchant Bros., Rm. 309, Hidalgo County Bk. Bldg., P. O. Box 545, Mercedes, Texas (B)
 Mullen, D. L., & Co., 155 Palm Blvd., Brownsville, Texas (B)
 Parker Constr. Co., P. O. Box 821, Harlingen, Texas (B)
 Paskett, F. R., 521 S. 10th, McAllen, Texas (B)
 Raymondville Constr. Co., 908 W. Hidalgo St., Raymondville, Texas (B)
 Smith, Reginald E., Crockett Rd., Harlingen, Texas (B)
 Thise, C. P., 1229 W. Jackson, Box 1910, Harlingen, Texas (B)
 Waitman, E. J., 617 S. West St., Box 94, Harlingen, Texas (B)
 Wedegartner Constr. Co., Box 711, Brownsville, Texas (B)

Local Members

Leavell, C. H., & Co., 1900 Wyoming St., El Paso, Texas (B)
 Morgan, J. E., & Sons, P. O. Box 721, El Paso, Texas (B)
 Ponsford Bros., P. O. Box 1412, El Paso, Texas (B)
 Templeton-Cannon, P. O. Box 548, San Angelo, Texas (B)

43. UTAH

(a) INTERMOUNTAIN BRANCH

President—Perce Young, Perce Young Bldg. Constr., 517 Wasatch Oil Bldg., Salt Lake City 1, Utah
Manager & Counsel—Allan E. Mecham, 430 S. Main St., Salt Lake City 1, Utah
Telephones: 5-7503 & 5-7504

Anderson Constr. Co., 55 W. 5th, So., Price, Utah (H)
 Ballard Constr. Co., 1215 S. 3d, W., Salt Lake City, Utah (B)
 Barker, Ellis W., Co., 302-303 Ness Bldg., Salt Lake City 1, Utah (B)
 Biesinger, Geo. L., & Son, 1705 Browning Ave., Salt Lake City, Utah (B)
 Bowers Bldg. & Constr. Co., 1033 S. State St., Salt Lake City 4, Utah (B-H)
 Brown, Alfred, Constr. Co., 627 Dooly Bldg., Salt Lake City, Utah (B)
 Burke, Jas. J., Co., 405 Kearns Bldg., Salt Lake City 1, Utah (B-H)
 Campion Co., 1550 Capitol St., Ogden, Utah (B)
 Child, Ralph E., 1400 E. 4th, So., Springville, Utah (B)
 Christensen Constr. Co., Box 1165, Salt Lake City 10, Utah (H-RR)
 Christiansen Bros., 209 W. 13th, So., P. O. Box 1736, Salt Lake City 1, Utah (B)

Chytraus Bros. Co., 2040 Radondo Ave., Salt Lake City, Utah (B)
 Clyde, W. W., & Co., Springville, Utah (H-Hvy)
 Davis, Ben H., 223 Interurban Depot Bldg., P. O. Box 1793, Salt Lake City, Utah (B)
 Dorland, E. H., Constr. Co., 1309 Jefferson St., Salt Lake City, Utah (B)
 Fors, Carl S., Co., 1639 E. 56th, So., Murray, Utah (B)
 Fullmer Bros., 1600 Jefferson St., Salt Lake, Utah (B)
 Gardner, W. W., 207 Interurban Bldg., Salt Lake City 1, Utah (B-H-Hvy)
 Garff, Mark B., Ryberg & Garff, Box 1204, 850 W. 15th, No., Salt Lake City, Utah (B)
 Germer, Abbott & Waldron Constr. Co., Tremonton, Utah (H-Hvy)
 Gibbons & Reed Co., 259 W. 3d South St., Salt Lake City 1, Utah (H-Hvy-RR)
 Groneman & Co., 70 W. 5th, So., Provo, Utah (B)
 Hilton & Carr, 922 12th St., Box 572, Ogden, Utah (B)
 Horman Constr. Co., 1760 S. State St., Salt Lake City, Utah (B)
 Intermountain Theatre Supply Co., 264 E. 1st, So., Salt Lake City, Utah (B)
 Jacobsen Constr. Co., 724 S. 3d, E., Salt Lake City 2, Utah (B)
 Jensen Bros., 213 Ness Bldg., Salt Lake City 1, Utah (B)
 Jensen, R. M., Constr. Co., 1057 S. 4th, W., Salt Lake City, Utah (H-Hvy)
 Johnson, Le Grand, 595 E. 1st, So., Logan, Utah (H-Hvy)
 Larson Constr. & Engr. Co., 2567 Lincoln Ave., Ogden, Utah (B)
 McCullough, Maurice B., 503 13th Ave., Salt Lake City 3, Utah (B)
 McCullough, Royden K., 676 G St., Salt Lake City 3, Utah (B)
 McKean, H. J., Dooly Bldg., Salt Lake City 1, Utah (B)
 Mendenhall, Deal, Springville, Utah (H-Hvy)
 Mickelson, John H., 528 E. Center St., Logan, Utah (B)
 Morrin, M., & Son, 259 Harrisville Rd., P. O. Box 1148, Ogden, Utah (B)
 Nelson, Carl E., P. O. Box 397, Logan, Utah (H)
 Nelson, Olof, Constr. Co., 620 S. Main St., Box 413, Logan, Utah (H)
 Okland Constr. Co., 2683 Glenmare St., Salt Lake City, Utah (B)
 Olson Constr. Co., 1549 S. 2d, W., P. O. Box 89, Salt Lake City, Utah (B)
 Parson & Fife Constr. Co., 620 E. 5th, So., Box 563, Brigham City, Utah (H)
 Paul, Earl S., 1463 32d St., Ogden, Utah (B)
 Paulsen Constr. Co., 1425 Jefferson St., P. O. Box 2514, Salt Lake City 4, Utah (B)
 Plewe Constr. Co., 838 E. S. Temple St., Salt Lake City, Utah (B)
 Raymond, Ace S., 1032 N. Main St., Box 445, Logan, Utah (B)
 Reynolds Constr. Co., Springville, Utah (H-RR)
 Romney, G. Maurice, 310 Pacific Natl. Life Bldg., Salt Lake City, Utah (B)

Smith, Enoch, Sons Co., 1441 Beck St., Salt Lake City 3, Utah (H-Hvy)
 Springmeyer Invest. & Constr. Co., 153 S. 2d, E., Provo, Utah (H-Hvy)
 Stettler, Ernest, & Sons, 672 E. 9th, No., Logan, Utah (B)
 Strong & Co., Springville, Utah (H-Hvy-RR)
 Sumson, J. M., & Sons, Springville, Utah (H-Hvy-RR)
 Thorn, A. O., & Sons Constr. Co., Provo, Utah (H-RR)
 Tolboe & Harlin Constr. Co., 1150 S. 4th, E., P. O. Box 411, Provo, Utah (B)
 Utah Construction Co., The, 719 1st Security Bk. Bldg., Ogden, Utah (B-H-Hvy-RR)
 Vincent-Peterson Co., 614 S. 3d, W., Salt Lake City 1, Utah (B)
 Walker, J. B. & R. E., 21 S. 10 West St., Salt Lake City 4, Utah (H-Hvy)
 Waterfall Constr. Co., 1685 Wall St., P. O. Box 228, Ogden, Utah (H-Hvy)
 Wheeler & Tempest, 22½ E. 1st, So., Salt Lake City 1, Utah (H-Hvy)
 Wheelwright Constr. Co., 2300 East Ave., P. O. Box 109, Ogden, Utah (H)
 Whiting, Floyd S., P. O. Box 158, Murray, Utah (H-Hvy-RR)
 Whiting & Haymond, 250 W. 2d, No., Springville, Utah (H-Hvy-RR)
 Whitmeyer, Geo. A., & Sons Co., 2759 Grant Ave., P. O. Box 857, Ogden, Utah (B)
 Young, L. A., Constr. Co., Richfield, Utah (H)
 Young, Perce, Bldg. Constr., 517 Wasatch Oil Bldg., Salt Lake City 1, Utah (B)
 Young & Smith Constr. Co., 204 Beason Bldg., Salt Lake City 5, Utah (H)

45. VIRGINIA

(a) VIRGINIA BRANCH

President—John W. Russell, Doyle & Russell, Central Natl. Bk. Bldg., Richmond 19, Va.
Secretary—Chas. P. Bigger, 603 E. Franklin St., Richmond 19, Va.
Telephone: 2-3438

Blackwell Engr. Co., Warrenton, Va. (B-H)
 Carpenter Constr. Co., 700 Bk. of Commerce Bldg., Norfolk 10, Va. (Hvy)
 DeLashmott Bros., Inc., 907 S. Highland St., Arlington, Va. (H-Hvy-RR)
 Doyle & Russell, Central Natl. Bk. Bldg., Richmond 19, Va. (B)
 English Constr. Co., Altavista, Va. (B)
 Gannaway, F. J., 7460 N. Shore Rd., Norfolk, Va. (H-Hvy)
 Gresham, E. T., Co., Inc., P. O. Box 1077, Norfolk 1, Va. (Hvy)
 Hudgins, M. S., 21 College Ave., Salem, Va. (H-Hvy-RR)
 Laburnum Constr. Corp., Box 1234, Richmond 9, Va. (B)
 Lang Constr. Co., Inc., 21 S. King St., Hampton, Va. (B-Hvy)
 Marquis, Robt. R., 2229 County St., Portsmouth, Va. (B)
 Mills, Ralph E., Co., P. O. Box 513, Salem, Va. (H-Hvy)
 Parrott, B. F., & Co., Inc., P. O. Box 1791, Roanoke 8, Va. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway, Hvy—Heavy; RR—Railroad.)

VIRGINIA—Continued

- Perkins-Barnes Constr. Co., Blackstone, Va. (H-RR)
 Perrin, J. Kennon, Co., 5th & Cary Sts., Richmond 19, Va. (B)
 Scott, W. H., Inc., Franklin, Va. (H)
 Wise Contr. Co., P. O. Box 547, Richmond 4, Va. (B)

46. WASHINGTON

(a) MOUNTAIN PACIFIC CHAPTER

- President**—C. V. Wilder, C. V. Wilder Co., 2006 State St., Bellingham, Wash.
Secretary-Manager—Paul Fredrickson, Benjamin Franklin Hotel, Seattle 1, Wash.
Telephone: Seneca 0026
- American Pile Driving Co., Everett, Wash. (Hvy)
 Anderson, P. J., & Sons, 13501 Aurora Ave., Seattle 33, Wash. (H)
 Argenterio & Colarossi, 1819 Weller, Seattle 44, Wash. (H)
 Associated Sand & Gravel Co., 2508 Colby Ave., Everett, Wash. (Hvy)
 Atkinson, Guy F., Co., 342 Skinner Bldg., Seattle 1, Wash. (H-Hvy)
 Austin, Robt. W., Box 4056, Interbay Sta., Seattle 99, Wash. (H)
 B & M Constr. Co., 716 Securities Bldg., Seattle 1, Wash. (Hvy)
 Badraun, J. J., 109 N. 122 St., Seattle 33, Wash. (H-Hvy)
 Bay Constr., Inc., 1762 Airport Way at Holgate, Seattle 4, Wash. (Hvy)
 Bellevue Constr. Co., Professional Bldg., Bellevue, Wash. (H-Hvy)
 Birbeck, L. J., P. O. Box 666, Oswego, Ore. (H-Hvy)
 Birch, S., & Sons Constr. Co., 208 Central Bldg., Seattle, Wash. (H-Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle, Wash. (B-H-Hvy)
 Brady Constr. Co., 707 Spokane St., Seattle 4, Wash. (H)
 Butler, M. P., 3419 13th Ave., S. W., Seattle 4, Wash. (B-Hvy)
 C & E. Constr. Co., Inc., 507 Masonic Bldg., Yakima, Wash. (H)
 Central Sand & Gravel Co., 4th & Ainsworth, Pasco, Wash. (H)
 Clevenger, Howard, Co., 608 E. 6th St., Port Angeles, Wash. (H-Hvy)
 Columbia Asphalt Paving Co., 219-220 Masonic Temple Bldg., Yakima, Wash. (H)
 Contractors Rental Service, Inc., 153 Michigan St., Seattle 8, Wash. (Hvy)
 Cooney, Don L., Inc., 1749 Airport Way, Seattle 4, Wash. (H)
 Dahlberg, S. A., 1412 Queen Anne Ave., Seattle 9, Wash. (Hvy)
 Dawson Constr. Co., 1015 C St., P. O. Box 187, Bellingham, Wash. (H)
 Diesel Oil Sales Co., 2155 Northlake Ave., Seattle 3, Wash. (H)
 Doolittle Constr. Co., 510 Adams St., Seattle 8, Wash. (H)
 Dowell, L. J., Inc., 4501 9th, N. W., Seattle 7, Wash. (H-Hvy)
 Ellis Constr. Co., P. O. Box 337, Ephrata, Wash. (H-Hvy)
 Erickson Paving Co., 1550 N. 34th St., Seattle 3, Wash. (H-Hvy)
 Fielding & Shepley, Inc., 1258 Bohn Ave., St. Paul 4, Minn. (H-Hvy)
 Fiorito Bros., 1100 Leary Way, Seattle 7, Wash. (H)
 Fiorito, N., Co., 844 W. 48th St., Seattle 7, Wash. (H)
 Funderburk Constr. Co., Arlington, Wash. (H-Hvy)
 General Construction Company, P. O. Box 3244, Seattle 14, Wash. (B-H-Hvy)
 Goetz & Brennan, Seaboard Bldg., Rm. 914, Seattle 1, Wash. (H-Hvy)
 Goodfellow Bros., Inc., Wenatchee, Wash. (H-Hvy)
 Govan, Hugh, Box 308, Port Angeles, Wash. (H)
 Grays Harbor Constr. Co., P. O. Box 743, Aberdeen, Wash. (B-H)
 Gredvig, Maurice, P. O. Box 355, Yakima, Wash. (H)
 Halleran Bros., 2342 Broadway, Seattle 2, Wash. (H)
 Hardison, J. W., P. O. Box 1432, Yakima, Wash. (H)
 Hawkins & Armstrong, 5265 16th, N. E., Seattle 5, Wash. (B-H)
 Hoagland-Findlay Engr. Co., 774 Dexter Horton Bldg., Seattle 4, Wash. (Hvy)
 Hoback, L. E., 2420 E. Grand Ave., Everett, Wash. (H-Hvy)
 Jarvis, Paul, Inc., 1070 W. Ewing St., Seattle 99, Wash. (H-Hvy)
 Johnson, A. W., Co., Inc., 208 E. Pacific St., Seattle 5, Wash. (B-H)
 Jussel, Joe A., Dellesta Park, Bellingham, Wash. (H)
 Kathman, Herman, 12054 23d, N. E., Seattle 55, Wash. (H-Hvy)
 Knowles, John B., Wenatchee, Wash. (Hvy)
 M-B Contr. Co., 4108 43d Ave., N. E., Seattle 5, Wash. (Hvy)
 MacRae Bros., 2733 4th Ave., So., Seattle 4, Wash. (B-H)
 Malaspina, Matt, & Co., 1901 23d Ave., So., Seattle 44, Wash. (Hvy)
 McKellar, Everett, Chelan, Wash. (H)
 Misco, Inc., Pier 50, Seattle 4, Wash. (Hvy)
 Monroe Constr. Co., W. Main & Blakely Sts., Monroe, Wash. (H-Hvy)
 Morrison Constr. Co., 3229 Airport Way, Seattle 4, Wash. (H-Hvy)
 Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle 4, Wash. (B-H-Hvy-RR)
 Moss, R. L., Constr. Co., P. O. Box 37, Zenith, Wash. (Hvy)
 Munter, M. P., Co., 1428 Joseph Vance Bldg., Seattle 1, Wash. (H)
 Newburn, L. L., 6262 14th Ave., So., Seattle 8, Wash. (Hvy)
 Norris Bros., 1425 4th Ave. Bldg., Seattle 1, Wash. (H)
 Northwest Constr. Co., 3950 6th Ave., N. W., Seattle 7, Wash. (H-Hvy)
 Northwest Precote, Inc., 7343 E. Marginal Way, Seattle 8, Wash. (H-Hvy)
 Nygren, David, 309 Lloyd Bldg., Seattle 1, Wash. (H)
 Odman Constr. Co., 2402 7th Ave., Seattle 1, Wash. (Hvy)
 Osberg Constr. Co., 1132 N. 128, Seattle 33, Wash. (H)
 Pacific Constr. Co., 1510 21st Ave., So., Seattle 4, Wash. (Hvy)
 Patricelli, John, 1534 32d Ave., So., Seattle 4, Wash. (Hvy)
 Phillips, Alton V., 1400 W. Nickerson, Seattle 99, Wash. (B-Hvy)
 Port Constr. Co., P. O. Box 868, Port Angeles, Wash. (H)
 Puget Sound Bridge & Dredg. Co., 2929 16th Ave., S. W., Seattle 4, Wash. (H-Hvy)
 Riggle & Creighton, 614 N. 1st St., Yakima, Wash. (B-Hvy)
 Roberts Constr. Co., 10430 Bothell Way, Seattle, Wash. (H)
 Romano, Toney, Co., 1833 Dearborn St., Seattle 4, Wash. (H)
 Rumsey & Co., 3821 Airport Way, Seattle 8, Wash. (H-Hvy)
 Russell-Gillett Co., P. O. Box 5, Cle Elum, Wash. (H)
 Scalzo, Thos., Co., 3211 Airport Way, Seattle 4, Wash. (H-Hvy)
 Scheumann & Johnson, 1001 Lloyd Bldg., Seattle 1, Wash. (Hvy)
 Seattle Contr. Co., 101 Nickerson St., Seattle 9, Wash. (H)
 Sound Constr. & Engr. Co. & Peter Kiewit Sons' Co., 1300 Aloha St., Seattle 9, Wash. (B-H-Hvy)
 State Constr. Co., 1245 Poplar Pl., Seattle 44, Wash. (Hvy)
 Stevens, A. W., Constr. Co., 119 S. Cherry St., P. O. Box 624, Burlington, Wash. (H-Hvy)
 Stoen's Landscape & Constr. Co., 8406 Aurora Ave., Seattle 3, Wash. (H-Hvy)
 Superior Constr. Co., 4610 37th Ave., S. W., Seattle 6, Wash. (H)
 Surace, J. P., Co., 2414 Blue Ridge Dr., Seattle 77, Wash. (H-Hvy)
 Sussex, R. H., 1744 State St., Bellingham, Wash. (H-Hvy)
 Templeton, E. J., 2924 Lombard, Everett, Wash. (H-Hvy)
 Terpening & Sons, P. O. Box 367, Ferndale, Wash. (B-H)
 Thorburn & Logozo, 4608 36th, S. W., Seattle 6, Wash. (B-H-Hvy)
 Traverso, T. W., 915 Carstens Pl., Seattle 8, Wash. (H-Hvy)
 Valley Constr. Co., 7722 Rainier Ave., Seattle 3, Wash. (H)
 Washington Asphalt Co., 309 W. 39th, Seattle 7, Wash. (H)
 Welcome, J. J., Constr. Co., 10206 Evanston Ave., Seattle 33, Wash. (H-Hvy)
 Western Asphalt Co., 309 W. 39th, Seattle 7, Wash. (H)
 Wilder, C. V., Co., 2006 State St., Bellingham, Wash. (H)
 Wilder, F. E., Rt. 6, Box 36, Olympia, Wash. (H)

A.G.C. DIRECTORY

WASHINGTON—Continued

(b) SEATTLE CHAPTER

President—Cliff Mortensen, Nelse Mortensen & Co., Inc., 1021 Westlake, No., Seattle 9, Wash.
Manager—E. B. Hickok, Arctic Bldg., Seattle 4, Wash.
Telephone: Seneca 1110

Armstrong & Armstrong, P. O. Box 59, Wenatchee, Wash. (B)
 Atherton Constr. Co., 1101 Terminal Sales Bldg., Seattle 1, Wash. (B)
 Baldwin, L. E., Inc., 1103 N. 36th, Seattle 3, Wash. (B)
 Bartram, Wilmer W., P. O. Box 502, Grandview, Wash. (B)
 Baugh Co., The, 4438 California Ave., Seattle 6, Wash. (B)
 Becker, H. L., & Co., 1201 Dexter Ave., Seattle 9, Wash. (B)
 Boen, Olav, Constr. Co., 3647 Stoneway, Seattle 3, Wash. (B-Hvy)
 Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle, Wash. (B)
 Brazier Constr. Co., 309 Pontius, No., Seattle 9, Wash. (B)
 Buchanan, T. N., Constr. Co., 835 W. 48th St., Seattle 7, Wash. (B)
 Cawdrey & Vemo, 650 Central Bldg., Seattle 4, Wash. (B)
 Chisholm & Eiford, 1726 State St., Box 1073, Bellingham, Wash. (B)
 Clark, W. G., Co., 408 Aurora Ave., Seattle 9, Wash. (B)
 Daniels, O. B., 1200 Westlake, No., Seattle 9, Wash. (B)
 Erwen, Edmund P., 437 Liberty Bldg., Yakima, Wash. (B)
 Fiksel & Ness, 311 W. 76th St., Seattle 7, Wash. (B)
 Gaasland Co., Inc., 1155 Ellis St., Bellingham, Wash. (B)
 Hall-Atwater Co., 907 Arctic Bldg., Seattle 4, Wash. (B)
 Harfst-Henson, 127 N. 35th, Seattle, Wash. (B)
 Harfst, Walter W., Inc., 127 N. 35th, Seattle, Wash. (B)
 Henrikson Constr. Co., 4025 Stoneway, Seattle 33, Wash. (B)
 Hodges Constr. Co., 600 Fairview, No., Seattle, Wash. (B)
 Jentoft-Johnson Co., 3140 Arcade Bldg., Seattle 1, Wash. (B)
 Kunej, Johnson Co., 235 9th Ave., No., Seattle 9, Wash. (H-Hvy)
 Larsen Constr. Co., 466 Colman Bldg., Seattle 4, Wash. (B)
 Lease & Leigland, 1501 N. 35th St., Seattle 3, Wash. (B-H-Hvy)
 Lohse, Frank, Marcus Whitman Hotel, Walla Walla, Wash. (B)
 Manson Constr. & Engr. Co., 821 Alaskan Way, Seattle 4, Wash. (B-Hvy)
 McAbee, F. R., Inc., 921 Elliott Ave., W., Seattle 99, Wash. (B)
 Mortensen, Nelse, & Co., Inc., 1021 Westlake, No., Seattle 9, Wash. (B)
 Mowat, A. F., Constr. Co., 2833 Eastlake Ave., Seattle 2, Wash. (B)

Odegard Constr. Co., 37th Off Broadway, P. O. Box 735, Everett, Wash. (B)
 Petersen, Wm., 2915 1st Ave., Seattle 1, Wash. (B)
 Seelye, Inc., 6845 29th Ave., N. E., Seattle 55, Wash. (B)
 Sellen, John H., Constr. Co., 228 9th, No., Seattle 9, Wash. (B)
 Shuck, E. F., 525 Pontius Ave., Seattle, Wash. (B)
 Slate, W. A., 8225 17th Ave., N. E., Seattle 5, Wash. (B)
 Sound Constr. & Engr. Co., 1300 Aloha St., Seattle 9, Wash. (B-Hvy)
 Strand & Sons, 3939 University Way, Seattle 5, Wash. (B)
 Teufel, Geo. E., Co., 4451 White-Henry-Stuart Bldg., Seattle 1, Wash. (B-Hvy)
 Tower Constr. Co., Inc., The, 3304 E. 130th, Seattle 55, Wash. (B)
 Turnbull, B. F., Inc., 4351 Leary Way, Seattle 7, Wash. (B)
 Turnquist, O. E., Constr. Co., 1305 Republican, Seattle 1, Wash. (B)
 Valle, Henrik, Co., Inc., Box 4096, Interbay Sta., Seattle 99, Wash. (B-Hvy)
 Vandivort Constr. Co., No. 5 Phipps Bldg., Wenatchee, Wash. (B)
 Warrack, J. B., Co., 706 Securities Bldg., Seattle 1, Wash. (B)
 Watts, J. C., Constr. Co., 3419 16th Ave., W., Seattle 99, Wash. (B)
 Welden, O. E., 2320 Nob Hill Ave., Seattle 9, Wash. (B)
 Westland Constr. Co., Inc., The, 1105 Westlake Ave., No., Seattle 9, Wash. (B)
 White, Noble W., Pier 65, 112 Canadian Natl. Dock, Seattle 4, Wash. (B)
 Wick & Dahlgren, 1700 21st Ave., So., Seattle 44, Wash. (B)
 Wilson, J. H., Co., 801 Dexter Ave., Seattle 9, Wash. (B)
 Wright, Howard S., & Co., Inc., 414 Pontius Ave., Box 3106, Seattle 14, Wash. (B)

(c) SPOKANE CHAPTER

President—N. A. Degerstrom, E. 15 32d Ave., Spokane, Wash.
Secretary-Treasurer—Verne D. Warren, S. 102 Stevens St., Spokane 8, Wash.
Telephone: Main 6822

Anderson, J. S., Constr. Co., 528 Hutton Bldg., Spokane, Wash. (H)
 Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Oreg. (H)
 Atkinson & Jones Co., P. O. Box 742, Richland, Wash. (B-H)
 Bair, Roy L., & Co., W. 1220 Ide Ave., Spokane, Wash. (B-H-Hvy)
 Baulne & Frieske, 5311 E. Boone Ave., Spokane, Wash. (H)
 Bryant, J. Arlie, 528 Hutton Bldg., Spokane, Wash. (H)
 C. & E. Constr. Co., Inc., 507 Masonic Bldg., Yakima, Wash. (H)
 Carbon Bros., 3430 N. Cook St., P. O. Box 5025, Sta. C, Spokane 13, Wash. (H)
 Castle, M. F., 105C3 N. Division, Spokane, Wash. (H)

Clifton & Applegate Co., Box 1473, Spokane, Wash. (H)
 Collins, J. H., & Co., Walla Walla, Wash. (H)
 Colonial Constr. Co., Box 1452, Spokane 6, Wash. (H)
 Crick, Jas., & Sons, E. 1005 Overbluff, Spokane, Wash. (H)
 Curtis Gravel Co., Box 106, Spokane 2, Wash. (H)
 DeAtley, F. H., & Co., Lewiston, Idaho (H)
 Degerstrom, N. A., E. 15 32d Ave., Spokane, Wash. (H)
 Grant Constr. Co., P. O. Box 743, Coeur d'Alene, Idaho (H)
 Hagman, Henry, Cashmere, Wash. (H)
 Halvorson, H., Inc., E. 4324 Trent Ave., Spokane 15, Wash. (B-H)
 Hansen & Parr Constr. Co., 1103 N. Calispel, Spokane, Wash. (H)
 Hewett, F. R., & Co., P. O. Box 46, Parkwater, Wash. (H)
 Inland Asphalt Co., 10th & Havana Sts., Spokane, Wash. (H)
 Joslin, C. W., & Son, 5311 E. Boone, Box 1174, Spokane 5, Wash. (H)
 Kinder, S. C., & Sons, Wilbur, Wash. (H)
 Konen, J. F., Constr. Co., 522 Park St., Lewiston, Idaho (B-H)
 Kunej, Max J., Co., N. 120 Ralph St., Box 4008, Sta. B, Spokane 15, Wash. (H-Hvy)
 Martin, F. E., Empire State Bldg., Spokane, Wash. (B)
 Mast, Harold T., 502 S. Main St., Colfax, Wash. (H)
 Materne Bros., E. 227 Longfellow St., Spokane, Wash. (H)
 McAtee & Heath, E. 3527 Trent Ave., Box 2188, Spokane 5, Wash. (H)
 McCartney, Birch, Veradale, Wash. (H)
 McClintock, R. S., Diamond Drill Co., 418 W. 2d Ave., Spokane, Wash. (H)
 McNary Dam Contrs., P. O. Box 1, Plymouth, Wash. (H-Hvy)
 Meyers, Walter, Hyde Bldg., Spokane, Wash. (B)
 Murphy Bros., 3728 E. Broadway, Spokane 10, Wash. (H)
 Nelson, M. E., Constr. Co., Ephrata, Wash. (H)
 Oneal, C. E., Co., Inc., Box 268, Ellensburg, Wash. (H-Hvy)
 Petsch, Walton H., 807 W. Mallon Ave., Spokane, Wash. (B)
 Pfeiffer & Hohner, E. 6203 Sharp, Spokane, Wash. (B)
 Power, Chas. A., E. 27 8th Ave., Box 1220, Spokane 5, Wash. (H-Hvy)
 Ritchie, A. Co., P. O. Box 253, Walla Walla, Wash. (B)
 S & F Constr. Co., P. O. Box 15, Yardley, Wash. (H)
 Sather & Sons, P. O. Box 197, Spokane, Wash. (H)
 Sound Constr. & Engr. Co. & Peter Kiewit Sons' Co., 1300 Aloha St., Seattle 9, Wash. (B-H)
 Standard Asphalt Paving Co., N. 119 Post, Spokane 8, Wash. (H)
 Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma 2, Wash. (H-Hvy)
 Sullivan, D. A., Parkwater, Wash. (H)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

WASHINGTON—Continued

- Weist, Ray, P. O. Box 191, Yakima, Wash. (H)
 Weller Bros., N. 633 Madelia St., Spokane, Wash. (H)
 Whitley, D. A., 2417 N. Division St., Spokane 13, Wash. (H)
 Winston Bros. Company & The Utah Construction Co., P. O. Box 715, Ephrata, Wash. (H-Hvy)

(d) TACOMA CHAPTER

President—George Warter, Warter Constr. Co., 7829 Pacific Ave., Tacoma, Wash.
Manager—C. W. Todd, 452 St. Helens Ave., Tacoma 2, Wash.
Telephone: BR 2297

- Anderson Bridge Constr. Co., 4130 S. Adams, Tacoma, Wash. (H-Hvy)
 Asphalt Paving & Engr. Co., Box 106, Tacoma 9, Wash. (H-Hvy)
 Atkinson, Guy F., Co., 806 Cascade Bldg., Portland 4, Oreg. (H-Hvy)
 Barr, G. W., Constr. Co., 8824 John Dower Rd., S. W., Tacoma, Wash. (B)
 Bergesen, Sam, Box 971, Rt. 10, Tacoma, Wash. (B)
 Bonnell Constr. Co., 760½ Commerce St., Tacoma, Wash. (B)
 Briggs Constr. Co., 1107 A St., Tacoma 22, Wash. (B)
 Burrows & Milone, 3215 S. M St., Tacoma, Wash. (Hvy)
 Construction Engrs. & Contrs., 801 Port of Tacoma Rd., Tacoma, Wash. (B-Hvy)
 Cooney, Don L., Inc., 2318 S. Tacoma Way, Tacoma, Wash. (Hvy)
 Davidson, C. F., Co., 3101 S. Lawrence, Tacoma, Wash. (B-Hvy)
 Dickson, Lige, Co., 3315 S. Pine St., Tacoma, Wash. (Hvy)
 Earley, Roy T., Co., 321 Middle Waterway, P. O. Box 1591, Tacoma, Wash. (B-Hvy)
 Freigang Constr. Co., 10310 Gravelly Lake Dr., Tacoma, Wash. (B)
 Goettling, E., & Sons, 2911 S. Chandler, Tacoma, Wash. (B)
 Hall Constr. Co., 9605 DeKoven Dr., S. W., Tacoma 9, Wash. (B)
 Hamilton Bldrs., 211 Maple Park, Olympia, Wash. (H-Hvy)
 Harrington, Rex N., 3211 Center St., Tacoma 3, Wash. (B)
 Harrison Bros. Co., The, 225 Wakefield Dr., Tacoma, Wash. (H-Hvy)
 Hart Constr. Co., 3536 E. 11th, Tacoma, Wash. (B)
 Homann, A. G., P. O. Box 37, Lacey, Wash. (B)
 Industrial Engrs. & Contrs., Inc., 711 Middle Waterway, Tacoma, Wash. (Hvy)
 Jones, Dolph, 2213 N. Proctor, Tacoma, Wash. (B)
 Kelly, Ray R., & Co., 3111 S. Pine St., Tacoma, Wash. (B-Hvy)
 Kendall Constr. Co., 4827 6th Ave., Tacoma, Wash. (Hvy)

- Ketner Bros., 419 St. Helens Ave., Tacoma, Wash. (B)
 Larson, O. F., & Son, Pacific Savings Bldg., Tacoma, Wash. (B-Hvy)
 Macdonald Bldg. Co., 1517 S. Tacoma Way, Tacoma, Wash. (B)
 McPhail Engr., 2904 Alaska St., Tacoma, Wash. (Hvy)
 Pacific Sand & Gravel Co., P. O. Box 628, Centralia, Wash. (H-Hvy)
 Paine-Gallucci, Inc., 1521 S. Grant St., Tacoma, Wash. (H-Hvy)
 Peters & Dehler, P. O. Box 997, Tacoma 1, Wash. (B)
 Puget Sound Constr. Co., 8110 Washington Blvd., S. W., Tacoma, Wash. (B-Hvy)
 Ruff Constr. Co., 7240 S. Tacoma Way, Tacoma, Wash. (B)
 Shotwell, J. D., 3113 S. Pine St., Tacoma 3, Wash. (H-Hvy)
 Sjoboen Bros., 3322 S. Lorne Ave., Olympia, Wash. (H-Hvy)
 Standard Constr. Co., 315 E. 25th St., Tacoma, Wash. (B)
 Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma, Wash. (H-Hvy)
 Utility Constr. Co., 3113 S. Pine St., Tacoma 3, Wash. (B-H-Hvy)
 Walker, E. G., 2814 N. Warner St., Tacoma, Wash. (B)
 Warter Constr. Co., 7829 Pacific Ave., Tacoma, Wash. (B)
 Werner, H. C., Inc. & F. W. Riddle Co., 3170 W. 11th, Eugene, Oreg. (Hvy)
 Woodworth & Co., Inc., 1200 E. D St., Tacoma, Wash. (H-Hvy)

(e) EASTERN WASHINGTON BUILDERS CHAPTER

President—Henry George, Henry George & Sons, Hutton Bldg., Spokane, Wash.
Executive Secretary—W. H. Peacock, 209 Spokane Hotel, Spokane 8, Wash.
Telephone: Madison 8525

- Bair, Roy L., Co., W. 1220 Ide Ave., Spokane, Wash. (B)
 Bengal, A. M., 1029 W. Bridge, Spokane, Wash. (B)
 Bouten, Gus J., Constr. Co., N. 627 Napa, Spokane, Wash. (B)
 Busboom & Rauh, 601 N. Cedar, Spokane, Wash. (B)
 Central Constr. Co., W. 2028 Sinto, Spokane, Wash. (B)
 George, Henry, & Sons, Hutton Bldg., Spokane, Wash. (B)
 Halvorson, H., Inc., E. 4324 Trent Ave., Spokane 15, Wash. (B)
 Hazen & Clark, N. 1101 Howard, Spokane, Wash. (B)
 Ludberg, Clyde M., Co., 809 N. Helena, Spokane, Wash. (B-H)
 McInnis Constr. Co., Hutton Bldg., Spokane, Wash. (B)
 Varnum, Walter, P. O. Box 983, Coeur d'Alene, Idaho (B)

47. WEST VIRGINIA

(a) THE ASSOCIATED GENERAL CONTRACTORS OF WEST VIRGINIA, INC.

President—Ray E. Ritchie, Boso & Ritchie, Inc., Ravenswood, W. Va.
Executive Secretary—Eugene H. Brown, 613 National Bk. of Commerce Bldg., Charleston, W. Va.
Telephone: 64-431

- Abbitt, W. A., Co., No. 5 Monongalia St., Charleston, W. Va. (B)
 Agnew Constr. Co., P. O. Box K, Roncoveerte, W. Va. (H-Hvy-RR)
 Agsten, H. B., Jr., 702 Pennsylvania Ave., Charleston 2, W. Va. (B)
 Agsten, H. B., & Sons, Inc., United Carbon Bldg., P. O. Box 2707, Charleston 30, W. Va. (B)
 Anderson's, Inc., 1500 Pennsylvania Ave., Charleston, W. Va. (H)
 Ankrom & Castin, 1040 Quincy St., Parkersburg, W. Va. (H-Hvy)
 Baker & Coombs, Inc., 319 Dmain Ave., Box 732, Morgantown, W. Va. (B)
 Boso & Ritchie, Inc., Ravenswood, W. Va. (H-Hvy-RR)
 Bowers & Chilton, Inc., 954 Montrose Dr., So., Charleston 3, W. Va. (B)
 Browder, Earl T., Inc., 611 Pennsylvania Ave., St. Albans, W. Va. (B)
 Byrum Constr. Co., The, 12th & Water Sts., Wheeling, W. Va. (B)
 Codell Constr. Co., Inc., P. O. Box 17, Winchester, Ky. (H-Hvy-RR)
 Coleman, L. S., Co., Inc., 209 1st Natl. Bk. Bldg., P. O. Box 189, St. Albans, W. Va. (H-Hvy-RR)
 Consolidated Engr. Co., P. O. Box 409, Wheeling, W. Va. (Hvy)
 Construction Service, Inc., 1601 Washington St., W., Charleston, W. Va. (H-Hvy-RR)
 Dowling Constr. Co., 510 4th St., Williams-town, W. Va. (B)
 Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy)
 Ebeling, Robt. M., Constr. Co., 914 Hawley Bldg., Wheeling, W. Va. (B)
 Fisher, O. B., & Sons, P. O. Box 187, Logan, W. Va. (B)
 Gunneau, Edw. C., 2300 Blackwell Dr., Charleston 1, W. Va. (B)
 Hair, H. W., 916 Cove Rd., Cove Sta., Weirton, W. Va. (B)
 Harman Bros., Box 475, Grafton, W. Va. (B-H-Hvy)
 Harris, E. L., & Son, P. O. Box 2709, Charleston, W. Va. (B)
 Harris, Leonard W., 1428 Lee St., Charleston 1, W. Va. (B)
 Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
 Hayne Engr. Co., 122½ Capitol St., Charleston 1, W. Va. (Hvy)
 Hewitt, R. N., 1012 Pennsylvania Ave., Charleston, W. Va. (H-Hvy)
 Higginbotham, A. G., Co., Charleston Natl. Bk. Bldg., Charleston, W. Va. (B)

WEST VIRGINIA—Continued

Jarvis-Courtney Corp., 410 Ohio Ave., Clarksburg, W. Va. (B)
 Jimison, C. H., Box 2181, Huntington 18, W. Va. (B)
 Johnson, G. C., Co., P. O. Box 949, Welch, W. Va. (B)
 Kuhn Constr. Co., 18th Fl., Kanawha Valley Bk. Bldg., Charleston 1, W. Va. (B)
 Lewis, P. R., P. O. Box 1261, Huntington, W. Va. (B)
 Love, Inc., 510 49th St., S. E., Charleston 4, W. Va. (B)
 Lynch, Pugh & Corson, Inc., Box 664, Morgantown, W. Va. (B)
 McDonough Constr. Co., 325 7th St., Parkersburg, W. Va. (B-Hvy-RR)
 Monty Bros., P. O. Box 151, St. Albans, W. Va. (H-Hvy-RR)
 Mott Core Drilling Co., 830 8th Ave., Huntington, W. Va. (B-H-Hvy-RR)
 Neighborgall Constr. Co., Guaranty Bk. Bldg., Huntington, W. Va. (B)
 Orders, W. R., 2405 Kanawha Terr., St. Albans, W. Va. (H-Hvy-RR)
 Pellicione, D., & Co., West St. corner Lee Ave., Weirton, W. Va. (B)
 Permanent Bldrs., Inc., Ohio Ave., P. O. Box 348, Clarksburg, W. Va. (B)
 Persun Constr. Co., 604 7th Ave., Rear, Huntington, W. Va. (B)
 Plate Constr. Co., 726 Jeanette St., Parkersburg, W. Va. (B)
 Polino, Sam G., & Co., P. O. Box 750, Elkins, W. Va. (H-Hvy-RR)
 Robertson-Henry Co., P. O. Box 2078, Huntington, W. Va. (H-Hvy-RR)
 Schneider, H. W., 514 George St., Parkersburg, W. Va. (B)
 Seabright Constr. Co., 4201 Wood St., Wheeling, W. Va. (B)
 Shrum, Clyde M., P. O. Box 1294, Clarksburg, W. Va. (B)
 Shuttle, A., & Co., Inc., Rm. 315, Deveny Bldg., Fairmont, W. Va. (H-Hvy)
 Southeastern Constr. Co., Peoples Bldg., P. O. Box 727, Charleston, W. Va. (B)
 Stephens Constr. Co., 217 4th St., Parkersburg, W. Va. (B)
 Stowe, Virgil, P. O. Box 990, Welch, W. Va. (B)
 Sutton Co., Inc., P. O. Box 1208, Sta. A, Radford, Va. (H-Hvy-RR)
 Thompson & Street Co., Box 472, Clarksburg, W. Va. (B-H)
 Vecellio & Grogan, P. O. Box 768, Beckley, W. Va. (H-Hvy-RR)
 Vecellio, Oscar, 130 Jefferson St., Beckley, W. Va. (H-Hvy)
 Viperman Constr. Co., P. O. Box 1352, 209 S. Fayette St., Beckley, W. Va. (B)
 Weaver Crane & Trucking Co., Inc., 701 Atlas Bldg., P. O. Box 3123, Charleston 1, W. Va. (Hvy-RR)
 Wilson Bros., 3328 Emerson Ave., Parkersburg, W. Va. (B)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

48. WISCONSIN

(a) MILWAUKEE CHAPTER

President—Arthur C. Wolff, Arthur C. Wolff, Inc., 3860 N. Bremen St., Milwaukee 12, Wis.
Manager—George A. Benish, 808 N. 3d St., 224-226 Century Bldg., Milwaukee 3, Wis.
Telephone: Marquette 8-3522

Bauer Constr. Co., Inc., 3411 W. Hopkins St., Milwaukee, Wis. (B)
 Becker, Roland H., Inc., Elm Grove, Wis. (B)
 Bentley Constr. Co., 125 E. National Ave., Milwaukee 4, Wis. (B-H-Hvy)
 Bentley, Thos. H., & Son, Inc., 3131 W. Mill Rd., Milwaukee 9, Wis. (B-Hvy)
 Buchholz, Walter T., Inc., 1026 N. Jackson St., Milwaukee 2, Wis. (B)
 Carlson, Geo., Co., 4041 N. Montreal St., Milwaukee 9, Wis. (B-Hvy)
 Dahlman Constr. Co., P. O. Box 1184, Milwaukee 1, Wis. (B)
 Drescher Co., 4602 N. 20th St., Milwaukee 9, Wis. (B)
 Gebhard-Berghammer, Inc., 5420 W. State St., Milwaukee 8, Wis. (B-Hvy)
 Hunzinger Constr. Co., Sta. K, Milwaukee 10, Wis. (B-Hvy)
 Klug & Smith Co., 4425 W. Mitchell St., Milwaukee 14, Wis. (B-Hvy)
 Knuth, E. C., & Co., 2919 W. Fond du Lac Ave., Milwaukee 10, Wis. (B-Hvy)
 Kroening Engr. Corp., 4500 W. Mitchell St., Milwaukee 14, Wis. (B-H)
 Lupinski, Inc., N. 1 & E. Capitol Dr., Milwaukee 12, Wis. (B-Hvy)
 Maier, Chas., & Son Co., 1633 N. 30th St., Milwaukee 8, Wis. (B)
 Oefflein, Walter W., Inc., 5345 N. Hopkins St., Milwaukee 9, Wis. (B-Hvy)
 Peters Constr. Co., 2640 N. Humboldt Ave., Milwaukee 12, Wis. (B)
 Reisinger, Robt. L., & Co., 733 N. Van Buren St., Milwaukee 2, Wis. (B-H)
 Schmitt, H., & Son, Inc., 930 E. Burleigh St., Milwaukee 12, Wis. (B-Hvy)
 Selzer-Ornst Co., 6222 W. State St., Milwaukee 13, Wis. (B-Hvy)
 Siderits Constr. Co., 3617 N. 2 St., Milwaukee 12, Wis. (B)
 Siesel Constr. Co., 514 E. Ogden Ave., Milwaukee 2, Wis. (B-Hvy)
 Stack Constr. Co., 3303 S. 20th St., Milwaukee 15, Wis. (B-H-Hvy)
 Steigerwald, Ed., & Sons, Inc., 5310 W. State St., Milwaukee 8, Wis. (B-Hvy)
 Universal Constr., Inc., 605 S. 12th St., Milwaukee 4, Wis. (B)
 Wolff, Arthur C., Inc., 3860 N. Bremen St., Milwaukee 12, Wis. (B)

(b) WISCONSIN CHAPTER

President—R. W. Kivell, C. R. Meyer & Sons Co., 50 State St., Oshkosh, Wis.
Vice President—D. E. Thomsen, Thomsen-Abbott Constr. Co., 211 S. Central Ave., Marshfield, Wis.
Manager, Secretary-Treasurer—J. Harry Green, Jackson Bldg., Janesville, Wis.
Telephone: 6689

Arnold, L. G., Inc., Eau Claire, Wis. (B-H-Hvy-RR)
 Bahr Constr. Co., 2204 S. 10th St., Manitowoc, Wis. (Hvy)
 Bondgard Constr. Co., 1135 Mound Ave., Racine, Wis. (B-Hvy)
 Central Contr. Co., 1220 Algoma Blvd., Oshkosh, Wis. (Hvy)
 Cullen, J. P., & Son, P. O. Box 72, Janesville, Wis. (B)
 Cunningham Bros., Inc., 359½ E. Grand Ave., Beloit, Wis. (B)
 Findorff, J. H., & Son, Inc., 601 W. Wilson St., Madison, Wis. (B)
 Fluor Bros. Constr. Co., 48 Otter St., Oshkosh, Wis. (B-Hvy)
 Ford Constr. Co., 911 S. Jackson St., Janesville, Wis. (B)
 Fritz Constr. Co., 138 N. Frances St., Madison, Wis. (B-Hvy)
 Ganther, Ben B., Co., 78 State St., Oshkosh, Wis. (B)
 Hamann Constr. Co., 408 Commercial St., Manitowoc, Wis. (B)
 Henry, Frank J., 1120 6th St., So., Wisconsin Rapids, Wis. (B)
 Hoepfner-Bartlett Co., 631 E. Madison St., Eau Claire, Wis. (B)
 Hutter Constr. Co., 134 Western Ave., Fond du Lac, Wis. (B)
 Immel Co., 562 N. Main St., Fond du Lac, Wis. (B)
 Johnson & Henrickson, 422 Dodge St., Racine, Wis. (B)
 Jones, L. S., & Son's, Inc., 1013 Villa St., Racine, Wis. (B)
 Meyer, C. R., & Sons Co., 50 State St., Oshkosh, Wis. (B-Hvy)
 Meyer, Edw. H., Constr. Co., P. O. Box 705, Neenah, Wis. (B-Hvy)
 Miron, P. G., Constr. Co., Inc., 139 N. Story St., Appleton, Wis. (B)
 Molzahn, Theo. J., & Sons, Inc., Rear 1812 Madison St., Box 599, La Crosse, Wis. (B)
 Nelson & Co., Inc., 1550 Yout St., Racine, Wis. (B)
 Nelson, Geo., & Son, Inc., 1117 W. Johnson St., Madison, Wis. (B)
 Nelson, Peter, & Son, Inc., 115 S. 4th St., La Crosse, Wis. (B)
 Olmstead, A. C., 1121 Pleasant St., Janesville, Wis. (B)
 Schuman Constr. Co., 426 Church St., Kohler, Wis. (B)
 Schwalbe, F. R., & Son, 313 Rivoli Bldg., La Crosse, Wis. (B)
 Selmer Co., The, 208 Northern Bldg., Green Bay, Wis. (B)
 Smith, Chas. D., & Son, Inc., P. O. Box 508, Fond du Lac, Wis. (B-Hvy)

WISCONSIN—Continued

Thiele Bros., Allen Grove, Wis. (B)
Thomsen-Abbott Constr. Co., 211 S. Central Ave., Marshfield, Wis. (B)
Vogel Bros. Bldg. Co., 1321 E. Mifflin St., Madison 3, Wis. (B)
Willis, T. S., Hayes Bldg., Janesville, Wis. (B)
Witscheck & Nelson, Inc., 921 15th St., Racine, Wis. (B)

49. WYOMING

(a) ASSOCIATED GENERAL CONTRACTORS OF WYOMING

President—Vern Knisely, Knisely-Moore Co., Box 77, Douglas, Wyo.
Secretary-Treasurer—Homer A. Scott, Peter Kiewit Sons' Co., P. O. Box 875, Sheridan, Wyo.
Telephone: 205

Arkwright, Stanley H., Inc., 1200 6th Ave., No., P. O. Box 1211, Billings, Mont. (H-Hvy)
Big Horn Constr. Co., P. O. Box 875, Sheridan, Wyo. (B-H-Hvy-RR)
Birch, S., & Sons Constr. Co., 314 Ford Bldg., Great Falls, Mont. (H)
Blanchard Bros., Rt. 3, Box 234, Denver 16, Colo. (H)
Boatright-Smith, P. O. Box 703, Rawlins, Wyo. (H)
Brown Constr. Co., 1530 E. Abriendo, Pueblo, Colo. (H)
Forgey Constr. Co., No. 6 Townsend Bldg., Casper, Wyo. (H)
Gilpatrick, M. J., Constr. Co., Riverton, Wyo. (H)
Habertier Constr. Co., Box 45, Cody, Wyo. (H)
Hesser, L. J., P. O. Box 806, Greeley, Colo. (H)
Hopkins & McPherson, P. O. Box 977, Laramie, Wyo. (H)
Inland Constr. Co., 416 Hynds Bldg., Box 197, Cheyenne, Wyo., & 3867 Leavenworth St., Omaha 5, Nebr. (B-H-Hvy-RR)
Kiewit, Peter, Sons' Co., P. O. Box 875, Sheridan, Wyo. (B-H-Hvy)
Knisely-Moore Co., Box 77, Douglas, Wyo. (H)
Leach Bros., Buffalo, Wyo. (H-Hvy-RR)
Monaghan, J. H. & N. M., & Assoc. Cos., Rt. 1, Derby, Colo. (H)
Morrison-Knudsen Co., Inc., 319 Broadway, Boise, Idaho (H)

Nelson, N. A., Constr. Co., P. O. Box 644, Sheridan, Wyo. (H)
Northwestern Engr. Co., P. O. Box 567, Denver 1, Colo. (H)
Peterson, Edlin E., 602 E. 15th St., Casper, Wyo. (H)
Read, A. H., Co., 706 W. 19th St., Cheyenne, Wyo. (H-Hvy)
Read Constr. Co., Inc., 706 W. 19th St., P. O. Box 357, Cheyenne, Wyo. (H-Hvy)
Roscoe, W. P., Co., P. O. Box 633, Billings, Mont. (H)
Sharrock & Pursel, Box 316, Casper, Wyo. (H)
Smith, Chas. M., Box 508, Thermopolis, Wyo. (B-H)
Summit Constr. Co., P. O. Box 1609, Rapid City, S. Dak. (H)
Taggart Constr. Co., P. O. Box 560, Cody, Wyo. (H)
Teton Constr. Co., P. O. Box 197, Cheyenne, Wyo. (H)
Warrington Constr. Co., 515 E. 25th St., Cheyenne, Wyo. (H)
Woodward Constr. Co., Box 1046, Rock Springs, Wyo. (H)
Wyoming Constr. Co., P. O. Box 3450, Laramie, Wyo. (H)
Wyoming Improvement Co., 323 Hynds Bldg., Cheyenne, Wyo. (B-H-Hvy)

50. ALASKA

(a) ALASKA CHAPTER

President—R. H. Stock, Stock & Grove, Inc., Box 2051, Anchorage, Alaska
Manager—L. A. Moore, P. O. Box 1756, Anchorage, Alaska
Telephone: 20471
Alaska Concrete Prods. Co., Sta. 1, Anchorage, Alaska (B)
Anderson Constr. Co., Inc., Naknek Air Base, Alaska (B)
B & M Constr. Co., % Res. Engr., Ladd Field, Alaska (Hvy)
Babler Bros. & Rogers Constr. Co., 4617 S. E. Milwaukie Ave., Portland, Oreg. (H-Hvy)
Badraun, J. J., Girdwood, Alaska (H-Hvy)
Baldwin, L. E., Inc., 1103 N. 36th, Seattle 3, Wash. (B-H)
Batchelder & Hazen, Box 1383, Fairbanks, Alaska (B)
Birch, S., & Sons Constr. Co., 208 Central Bldg., Seattle, Wash. (H-Hvy)
Boespflug, J. C., Constr. Co., 1912 4th Ave., So., Seattle 4, Wash. (B-Hvy)
Breeden & Smith, Box 2098, Anchorage, Alaska (B)

Butcher, Earl L., Box 2051, Fairbanks, Alaska (B-H-Hvy)
Date, H. G., Box 258, Cordova, Alaska (B-Hvy)
Gaasland Co., Inc., 1155 Ellis St., Bellingham, Wash. (B)
Haddock Engrs., Ltd. & Assocs., Santa Fe, N. Mex. (B-Hvy)
Hufeisen, C. Wm., Box 1194, Anchorage, Alaska (B)
Kiewit, Peter, Sons' Co., 1300 Aloha, Seattle, Wash. (B)
Kuney, Max J., Co., Box 4008, Sta. B, N. 120 Ralph St., Spokane 15, Wash. (Hvy)
Lytle, C. F., Company & Green Constr. Co., 312 Masonic Temple Bldg., Des Moines, Iowa (H-Hvy-RR)
McGillivray Bros., Box 1523, Ketchikan, Alaska (B)
McLaughlin, Inc., P. O. Box 161, Palmer, Alaska (H-Hvy-RR)
Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, Wash. (B-H-Hvy-RR)
Mortensen, Nelse, & Co., Inc., 1021 Westlake, No., Seattle 9, Wash. (B)
Munter, M. P., Co., 1428 Joseph Vance Bldg., Seattle 1, Wash. (H)
Patti-MacDonald Constr. Co., 3829 W. Pine Blvd., St. Louis 8, Mo. (B)
Pomeroy, J. H., & Co., Inc., 333 Montgomery St., San Francisco 4, Calif. (Hvy)
Reed & Martin, Inc., Box 451, Fairbanks, Alaska (B)
Shaw, N. F., Inc., P. O. Box 2132, Anchorage, Alaska (B)
Smith & Anderson, Box 321, Fairbanks, Alaska (B)
Stock & Grove, Inc., Box 2051, Anchorage, Alaska (Hvy)
Swalling Constr. Co., Inc., Box 1962, Anchorage, Alaska (B-Hvy)
Thomas Constr. Co., Box 2266, Ketchikan, Alaska (H)
Valle, Henrik, Co., Inc., Box 4096, Interbay Sta., Seattle 99, Wash. (B)
Warrack, J. B., Co., Box 2384, Anchorage, Alaska (B)
Waxberg, A. E., Constr. Co., Box 1481, Fairbanks, Alaska (B)
Williams Equip. Co., Box 1190, Fairbanks, Alaska (B-H-Hvy)

51. HAWAII

Local Member

Pacific Construction Co., Ltd., 1192 Waimanu St., Honolulu 42, T. H. (B-Hvy)

National Members

Atkinson, Guy F., Co., 10 W. Orange Ave., P. O. Box 593, South San Francisco, Calif.;
806 Cascade Bldg., Portland 4, Oreg.;
P. O. Box 259, Long Beach 1, Calif.;
342 Skinner Bldg., Seattle 1, Wash. (B-H-Hvy-RR)
Bates & Rogers Construction Corporation, 600 W. Jackson Blvd., Chicago 6, Ill.;
Rm. 1122, 209 Post St., San Francisco, Calif. (B-Hvy-RR)

Byrne Organization, Inc., 2607 Connecticut Ave., N. W., Washington 8, D. C.;
1901 N. Harwood, Dallas, Texas;
P. O. Box 2320, Honolulu, T. H. (B)
Cauldwell-Wingate Company, 101 Park Ave., New York 17, N. Y. (B)
Condon-Cunningham Company, 4229 Lafayette Ave., Omaha 3, Nebr. (H-Hvy)
Cowper, John W., Co., Inc., The, 405 Sidway Bldg., Buffalo 3, N. Y. (B)

Cranford, Frederick L., Inc., Crescent Bldg., 129 Pierrepont St., Brooklyn 2, N. Y. (Hvy)
Dravo Corporation, The Contracting Division, Neville Island, Pittsburgh 25, Pa. (Hvy-RR)
Foley Brothers, Inc., Westchester Lighting Co. Bldg., Vermilyea St., Pleasantville, N. Y. (Hvy-RR)
Forcum-James Co., Dyersburg, Tenn. (B-H-Hvy)

A.G.C. DIRECTORY

NATIONAL MEMBERS—Continued

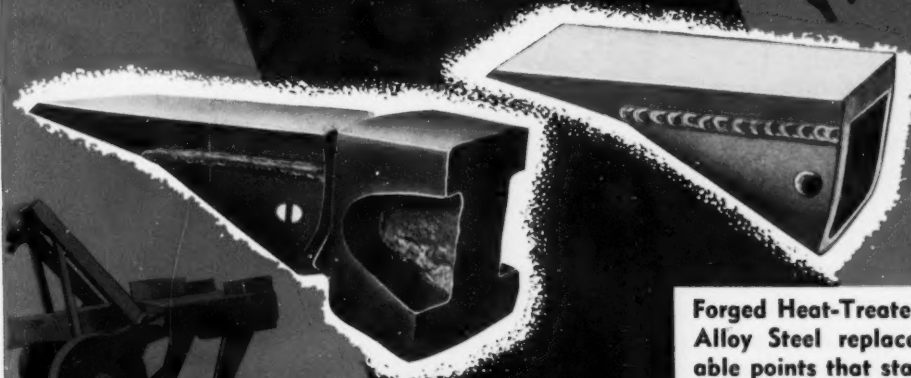
- Ford, Bacon & Davis Constr. Corp., 805 S. Grand St., Monroe, La.;
Box 2706, Charleston 30, W. Va.;
39 Broadway, New York, N. Y. (B-Hvy)
Fuller, Geo. A., Company, Fuller Bldg., 597 Madison Ave., New York 22, N. Y.;
Conway Bldg., 111 W. Washington St., Chicago 2, Ill.;
2326 N. Charles St., Baltimore 18, Md.;
Lawyers Bldg., 11 Beacon St., Boston 8, Mass.;
1138 Munsey Bldg., Washington 4, D. C.;
1st Natl. Bk. Bldg., 511 Wood St., Pittsburgh 22, Pa. (B)
General Construction Company, P. O. Box 3244, Seattle 14, Wash.;
4850 N. W. Front Ave., P. O. Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)
Gilpin Construction Co., The, 4850 N. W. Front Ave., Box 3860, Portland 8, Oreg. (B-H-Hvy-RR)
Harrison Construction Company, 1101 Western Ave., Pittsburgh 33, Pa. (H-Hvy)
Johnson, Al Construction Co., 608 Foshay Tower, Minneapolis 2, Minn. (H-Hvy)
Johnson, W. L., Construction Co., 209 E. High St., Hicksville, Ohio;
Box 175, Bexley Sta., Columbus 9, Ohio (H-Hvy)
Kansas City Bridge Company, 928 Broadway, Kansas City 6, Mo.;
Shipyard, Plaquemine, La. (Hvy-RR)
Koss Construction Company, 205 Farm Bureau Bldg., Des Moines 9, Iowa (H-Hvy-RR)
List & Clark Construction Company, 729 Railway Exch. Bldg., Kansas City 6, Mo. (H-Hvy-RR)
Long Construction Company (John C. Long-Robert W. Long), 810 Rialto Bldg., Kansas City 6, Mo. (B-Hvy)
Lytle, C. F., Company, Box 206, Sioux City, Iowa (H-Hvy-RR)
Manhattan Construction Co., Manhattan Bldg., Muskogee, Okla.;
P. O. Box 1686, Tulsa, Okla.;
808 1st Natl. Bldg., Oklahoma City, Okla.;
P. O. Box 826, Fort Smith, Ark.;
2828 Pease St., Houston, Texas (B-Hvy)
Maxon Construction Company, Inc., 131 N. Ludlow St., Dayton 2, Ohio (Hvy)
McDevitt & Street Company, 505 Builders Bldg., Box 1847, Charlotte 1, N. C. (B-Hvy)
McLean Contracting Company, 1301-3 Fidelity Bldg., Baltimore 1, Md. (H-Hvy-RR)
McWilliams Dredging Company, 860 St. Charles St., P. O. Box 584, New Orleans 7, La. (Hvy)
Merritt-Chapman & Scott Corp., 17 Battery Pl., New York, N. Y.;
New London, Conn.;
Cleveland, Ohio (B-Hvy)
Morrison-Knudsen Co., Inc., 319 Broadway, Box 450, Boise, Idaho;
411 W. 5th St., Los Angeles 13, Calif.;
603 Hoge Bldg., Seattle 4, Wash.;
Rm. 1011, Crocker 1st Natl. Bk. Bldg., 1 Montgomery St., San Francisco 4, Calif.;
2905-6 Chanin Bldg., 122 E. 42d St., New York 17, N. Y. (B-H-Hvy-RR)
Muirhead, Wm., Construction Company, Inc., P. O. Box 2012, E. Trinity Ave., Durham, N. C. (B-H-Hvy)
Oman Construction Company, P. O. Box 146, Nashville 2, Tenn. (B-H-Hvy-RR)
Peterson, Edward, Company, 903 W.O.W. Bldg., Omaha 2, Nebr. (H-Hvy-RR)
Prepakt Concrete Company, The, Union Commerce Bldg., Cleveland 14, Ohio (Hvy)
Progressive Bldrs., Inc., Crescent Blvd. & Norwood Ave., Pennsauken, N. J. (B-Hvy)
Raymond Concrete Pile Co., 140 Cedar St., New York 6, N. Y.;
421 S. W. 6th Ave., Portland 4, Oreg.;
Rm. 208, 816 W. 5th St., Los Angeles 17, Calif.;
306 Fourth Ave., Pittsburgh 22, Pa.;
1731 K St., N. W., Washington 6, D. C.;
57 Forsyth St., N. W., Atlanta 3, Ga.;
711 Mercantile Trust Bldg., Baltimore 2, Md.;
31 St. James Ave., Boston 16, Mass.;
111 W. Monroe St., Chicago 3, Ill.;
7430 2d Ave., Detroit 2, Mich.;
1500 Walnut St., Philadelphia 2, Pa.;
333 Montgomery St., San Francisco 4, Calif.;
1004 Baltimore, Kansas City 6, Mo.;
2300 Willow St., Oakland 7, Calif.;
145 Avondale Pl., Syracuse 10, N. Y.;
914 Main St., Houston 2, Texas;
706 Chestnut St., St. Louis 1, Mo.;
Hotel Roberts, 28 W. Flagler St., Miami 32, Fla.;
922 Union Commerce Bldg., Cleveland 14, Ohio;
211 Interurban Depot Bldg., Salt Lake City 1, Utah (H-Hvy-RR)
Reniger Constr. Co., Box 688, M. O., Lansing 3, Mich. (B-H-Hvy)
Rust Engineering Co., The, Rust Bldg., 575 Sixth Ave., Pittsburgh 19, Pa.;
902 Denrike Bldg., 1010 Vermont Ave., N. W., Washington 5, D. C.;
519 Lincoln Bldg., 60 E. 42d St., New York 17, N. Y.;
Exchange Bldg., 2109 5th Ave., No., Birmingham 3, Ala. (B-Hvy)
Starrett Brothers and Eken, Incorporated, 63 Wall St., New York 5, N. Y. (B)
Stewart, James, & Co., Inc., 230 Park Ave., New York 17, N. Y.;
231 S. LaSalle St., Chicago 4, Ill.;
1417 Magnolia Bldg., Dallas 1, Texas (B)
Stone & Webster Engineering Corp., 90 Broad St., New York, N. Y.;
49 Federal St., Boston, Mass.;
33 S. Clark St., Chicago, Ill.;
557 Union Trust Bldg., Pittsburgh, Pa.;
235 Montgomery St., San Francisco, Calif.;
601 W. 5th St., Los Angeles, Calif.;
Esperson Bldg., Houston, Texas (B-Hvy)
Teichert, A., & Son, Inc., 1846 37th St., Sacramento 5, Calif. (H-Hvy-RR)
Terteling, J. A., & Sons, Inc., P. O. Box 1428, Boise, Idaho (B-H-Hvy-RR)
Tidewater Construction Corporation, P. O. Box 57, Norfolk 1, Va. (B-H-Hvy-RR)
Tompkins, Chas. H., Co., 907 16th St., N. W., Washington 6, D. C.;
557 8th Ave., Fort Worth, Texas (B-Hvy)
Tuller Construction Company, The, 95 Monmouth St., Red Bank, N. J. (B-H-Hvy-RR)
Turner Construction Co., 420 Lexington Ave., New York 17, N. Y.;
1500 Walnut St., Philadelphia 2, Pa.;
38 Newbury St., Boston 16, Mass.;
Bankers' Bldg., 105 W. Adams St., Chicago 3, Ill. (B-Hvy)
United Construction Co., 64 W. 5th St., Winona, Minn. (H-Hvy)
United Engineers & Constructors Inc., 1401 Arch St., Philadelphia 5, Pa. (B-Hvy-RR)
Utah Construction Co., The, 719 First Security Bank Bldg., Ogden, Utah;
1 Montgomery St., San Francisco 4, Calif.;
57 E. 4th, So., Salt Lake City 11, Utah (B-H-Hvy-RR)
Vermilya-Brown Company, Inc., 100 E. 42d St., New York 17, N. Y. (B)
Virginia Engineering Co., Inc., 80 29th St., Newport News, Va. (B-H-Hvy-RR)
Walbridge, Aldinger Company, 409 Griswold St., Detroit 26, Mich. (B-H-Hvy-RR)
Walsh Construction Company—
Davenport, Iowa
General office:
122 E. 42d St., New York 17, N. Y.
District office:
785 Market St., San Francisco 3, Calif. (B-Hvy-RR)
Webb, Del E., Constr. Co., P. O. Box 4066, Phoenix, Ariz.;
5101 San Fernando Rd., W., Los Angeles 39, Calif. (B-Hvy)
Western Contracting Corporation, 400 Benson Bldg., Sioux City 15, Iowa;
P. O. Box 801, Newman, Calif. (H-Hvy)
Winkelman, D. W., Co. Inc., 205 Harrison St., Syracuse 2, N. Y. (H)
Winston Bros. Company, 1470 Northwestern Bank Bldg., Minneapolis 2, Minn.;
1532 S. California Ave., Monrovia, Calif. (B-H-Hvy-RR)
Wunderlich Contracting Company, 206 Patterson Bldg., Omaha 2, Nebr. (H-Hvy)
Zachry, H. B., Co., P. O. Box 2570, San Antonio, Texas;
P. O. Box 850, Laredo, Texas (B-H-Hvy-RR)

(Symbols following names indicate type of construction performed by company; B—Building; H—Highway; Hvy—Heavy; RR—Railroad.)

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Give
Longer Life
Greater Yardage
with
Less Power
at
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*"Teeth that
really dig"*



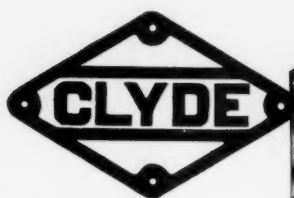
Forged Heat-Treated
Alloy Steel replace-
able points that stay
sharp and are quickly
and easily changed.

H & L Points . .

- STAY SHARP
- NO REVERSING
- NO REBUILDING
- QUICK CHANGING

H&L TOOTH CO.

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MONTEBELLO, CALIFORNIA



Portable* BUILDERS TOWERS

many
SAVES[^] COSTLY MAN-HOURS

Easily moved from
job to job!

No wasted time!

No loss of material!

• Self raising. Clyde Towers up to 100 ft. are assembled while on ground.

• Easy to handle. Tower quickly disassembles into 10 ft. sections.

• Special equipment. Concrete hopper may be substituted for elevator platform.

• Ton loads. Quickly and safely hoist ton loads at speeds up to 175 feet per minute.

Cut Costs!

Speed Materials Handling!

*Clyde Portable Builders Towers offer many money-saving and time-saving advantages. Time saved in the erection and dismantling, as compared to other type elevators, effects large savings **measurable in cold cash!** Clyde Towers are built for long life, dependable performance, and eliminate maintenance and replacement costs of timber tower. But more than that, Clyde Portable Builders Tower are **safety engineered** to minimize construction job hazards. No acrobats or dare-devils are needed to erect a Clyde . . . it's assembled on the ground and raised into position with its own hoist!

For safety, for convenience, for large savings measurable in cold cash, get a Clyde! **You can expect, AND GET,** more when you buy a Clyde portable builders tower.

Check these Clyde Features

- ✓ Safety brake automatically locks load in case of cable failure.
- ✓ A 2,000 lb. capacity tower derrick available as extra equipment.
- ✓ May be transported on trailer wheels or loaded on a truck.

*For Complete Facts
write for Bulletin A-11*



Tower hoist quickly and easily raises tower into position. No outside crane is needed. Clyde Portable Builders Towers are fast, safe, convenient to erect.



Tower is quickly and easily assembled, and cable reeved while tower is on ground. Only two men are required to handle and erect complete.



Tower is easily and quickly lowered and dismantled for transport. May be loaded on truck or towed on trailer wheels which attach to tower base.



CLYDE IRON WORKS, Inc.

DULUTH 1, MINNESOTA

Hoists • Derricks • Whirleys • Builders Towers • Car Pullers • Handi-Cranes • Rollers •

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